

HEALTH CARE IN NON-CATCHMENT AREAS:

MAXIMIZING RESOURCE EFFICIENCY, ACCESS, AND QUALITY

A Graduate Management Project
Submitted to the Faculty of
Baylor University
In Partial Fulfillment of the
Requirements for the Degree

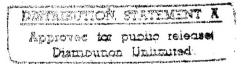
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Applying coordinated care to both open allotment and Civilian Health and Medical Program of the Uniformed Services (CHAMPUS) beneficiaries in non-catchment areas could yield significant improvements in access and efficiency. The Fort George G. Meade (FGGM) U.S. Army Medical Department Activity's (USAMEDDAC) Health Service Area includes a beneficiary population cluster located in western Pennsylvania in and around the city of Pittsburgh. This project compared the current health care delivery mechanism and three alternatives. These included a contract health maintenance organization, a Department of Veterans Affairs (VA) agreement, a military outpatient clinic, and the current system of open allotment, direct care, and CHAMPUS. The criteria used to evaluate the four options included the Government criteria: (a) Government Cost, (b) Control and Flexibility, (c) Unit Command and Control, (d) Cost to Patient, (e) Geographic Convenience, (f) Simplicity, and (g) Freedom of Choice. Based on the above criteria, the optimal alternative was the military outpatient clinic option. However, the VA option ranked a close second and was the optimal alternative for the open allotment beneficiaries. The Contract option was ranked third overall but was the best option when judged against the customer satisfaction criteria alone. The current system was ranked fourth.

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ABSTRACT

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INTRODUCTION

Traditional coordinated care initiatives in the Department of Defense (DOD) principally focus on beneficiaries residing in proximity to military treatment facilities (MTF) in what are termed catchment areas. Yet many eligible beneficiaries reside outside these catchment areas. While some Civilian Health and Medical Program of the Uniformed Services (CHAMPUS) projects, such as the CHAMPUS Reform Initiative and Southeastern Fiscal Intermediary Program (Fant & Pool, 1990), have the potential of affecting non-catchment area beneficiaries, their effect is limited to those eligible for the CHAMPUS program, an indemnity health insurance for active duty dependents and non-Medicare eligible retirees and their dependents.

Frequently these non-catchment area populations include significant numbers of active duty beneficiaries whose health care is funded through the open allotment (OA) system. In Fiscal Year (FY) 1992, the U.S. Army Health Services Command paid a total of \$57,500,000 in OA claims for Army beneficiaries residing in the 50 states, Puerto Rico, and Panama. A total of \$61,100,000 was programmed for FY 93 (Walton, personal communication, May 26, 1993).

Applying coordinated care initiatives to both OA and CHAMPUS beneficiaries in non-catchment areas could yield significant improvements in access and resource efficiency. This is particularly true when these populations are geographically clustered. The Fort George G. Meade (FGGM) U.S. Army Medical Department Activity's (USAMEDDAC) Health Service Area includes such a beneficiary population cluster located in western Pennsylvania in and around the city of Pittsburgh.

CHARLES E. KELLY SUPPORT FACILITY

The Charles E. Kelly Support Facility (CEKSF) is located approximately 10 miles south-west of downtown Pittsburgh in Allegheny County. The CEKSF performs a variety of functions to include administrative and logistical support to those units located on the installation as well as those in surrounding communities and maintaining a commissary and post exchange for beneficiaries in the area. Although CEKSF's area of responsibility varies with its assorted missions, it basically includes western Pennsylvania as well as small portions of Ohio (OH) and West Virginia (WV).

The nearest military treatment facility is an outpatient clinic located 200 miles from the CEKSF in Carlisle Barracks, Pennsylvania. Kimbrough Army Community Hospital (KACH), located on Fort George G. Meade, Maryland, and the Air Force hospital located in Dayton, Ohio, are the closest military inpatient facilities and are approximately 230 miles distant. The nearest Navy hospital is approximately 260 miles away in Washington, D.C..

In April of 1975, an Army Health Clinic located at the Greater Pittsburgh International Airport closed due to inactivating units in the area. This clinic serviced an average of 874 patients per month from September 1973 to August 1974. Additionally, a Public Health

Service facility in downtown Pittsburgh closed in October 1981 (Hodor, draft memorandum, 11 January, 1989).

Medical care for beneficiaries is currently provided by the clinics and hospitals previously noted or under the Open Allotment (OA), CHAMPUS, or Medicare programs depending on the eligibility of the beneficiary. Veterans with service related injuries are also eligible for priority care at local Department of Veterans Affairs (VA) facilities. Additionally, active duty members and veterans with non-service related injuries may receive care at VA facilities on a space available basis.

CONDITIONS WHICH PROMPTED THIS STUDY

Since the mid-1980's, the various commanders of CEKSF have petitioned the FGGM USAMEDDAC to improve health services in the Pittsburgh area, preferably by reopening a clinic. Inadequacies with the current system affect both the individual beneficiary and organizational effectiveness (Burns, memorandum, November 12, 1991; Burns, interview, December 10, 1991).

With no MTF for sick call, soldiers must use civilian physicians who may be unable to see them at the beginning of the work day. Consequently, an active duty member who is well enough to work but needs a prescription medication, may miss a significant portion of the work day waiting for an appointment. Civilian physicians may also be more prone than their military counterparts to excuse soldiers from work (quarters) (Burns, interview, December 10, 1991). This loss of duty time impacts on organizational effectiveness and command and control. The lack of a military physician also makes it difficult to administer military unique health programs such as HIV testing, physical examinations, and weight control.

Many health care providers are unwilling to bill the FGGM

USAMEDDAC Claims Office and wait for their payment (Burns, interview,

December 10, 1991). Consequently, many active duty members must pay

for their health care out of pocket and wait for reimbursement. Lost time and command and control problems are amplified when the cost of care is expected to exceed \$250 or specialist care is required, since approval from the FGGM USAMEDDAC must be obtained prior to obtaining this care (Army Regulation 40-3, 1985). If the care is available in the military system, such as at KACH, soldiers may be required to travel on temporary duty (TDY) to FGGM to receive their care. This results in time away from their jobs and families, as well as TDY costs to their units.

There are no firm rules as to what medical procedures or health needs will be approved or disapproved. What is approved or disapproved may vary significantly based on current KACH resources and/or leadership philosophy. Additionally, many hospital procedures and policies are not designed for remotely located beneficiaries.

A routine physical examination requires a trip for ancillary tests, a second for the actual exam, and additional trips for any problems which are referred to a specialist. An over-40 physical can require yet another trip for a stress test. A vasectomy, which is classified as elective surgery, can not be approved under the Supplemental Care program and requires up to four trips to include a preoperative appointment, surgery, and two subsequent postoperative tests.

The use of CHAMPUS by dependents of active duty can also be a significant burden. Particularly for lower ranking individuals with large families who are forced to use CHAMPUS and pay the \$300 family deductibles (FY 94) and 20% co-payments. Some care, such as school physical examinations, is not authorized under CHAMPUS and must be paid for at the parents' expense. Additionally, dependent parents are not authorized to use CHAMPUS. Their care must be paid for by the active duty member. The lack of an MTF option creates an inequitable health care system for beneficiaries who are not assigned duty near an MTF.

Traditionally, a USAMEDDAC commander has had little control over the care that is received by beneficiaries outside of his catchment area. The Assistant Secretary of Defense for Health Affairs (ASD(HA)) Policy Guidelines on the DOD Coordinated Care Program (January 8, 1992, p. 6-7) states that, "Because no MTF commander is responsible for non-catchment areas, a mechanism for establishing networks [of health care providers] in non-catchment areas will be provided by the ASD(HA) where feasible and desirable." In a draft concept paper, Policy Guideline on Implementing the Managed Care Program in the Military Health System, the ASD(HA) announced that managed care support contracts would be used to

provide managed care services for care received from the civilian sector to include claims processing, utilization management, and establishment of provider networks where appropriate (1993, September 23).

With the tools of coordinated care and the flexibility to innovatively approach the delivery of health care, commanders have an exceptional opportunity to identify and target population clusters in a USAMEDDAC's Health Service Area (HSA) while increasing access for beneficiaries, monitoring the quality of care they receive, and controlling the costs of delivering that care. This can be accomplished prior to the implementation of managed care support contracts or in conjunction with them.

PROBLEM STATEMENT

The current mechanism for delivering health care in non-catchment areas does not adequately ensure acceptable access and resource efficiency. Consequently, beneficiaries residing in the Greater Pittsburgh Area are dissatisfied with their current health care system.

LITERATURE REVIEW

Health care costs in the United States accounted for approximately 11.5% of the gross national product (GNP) in 1990 (Kaiser, 1990) and are expected to reach 16% by the year 2000 (Lanoue, memorandum, January 8, 1993). Critics of the health care system argue that the United States spends too much on health care and that consumers do not receive adequate compensation for the investment. In fact, the United States spends more money on health care then any other country in the world; 38% more than Canada which ranks second in total health care expenditures. Yet the United States is ranked 16th in life expectancy and 17th in infant mortality (Maher, 1990).

Others point to the unique characteristics of the United
States, such as our large indigent population, as explanations for
the statistics and argue that 11.5%, or even 16%, of the GNP may not
be enough funding for health care. Regardless of the conflicting
views on how much should be spent on health care, there is nearly
unanimous concern over the rate of increase of health care costs
which continue to out pace general inflation. From 1985 to 1988,
"the medical care component of the CPI [Consumer Price Index] grew
half again as fast as did the index for all other items" (Donham &

Vanek, 1990, p. 128). Health care costs continue to experience 10% inflation, twice that of general inflation (Lanoue, memorandum, January 8, 1993).

Health care reform is arguably the most pressing issue facing the country. President Clinton's proposed Health Care Reform Act is placing significant pressure on the health care industry to bring medical inflation under control. The Department of Defense is not immune to this pressure. While the Army budget has been decreasing in real dollars since 1985 (Braendel, 1990), the cost of providing health care has increased steadily. From 1985 to 1990, military medical costs have increased 55% (Mendez, 1990). This has resulted in dedicating an increasing portion of the Defense budget to health care. Of particular note are the increasing costs of CHAMPUS.

A study by the United States General Accounting Office (1990) found that from FY 85 to projected costs in FY 91, MTF costs would increase 43% as compared to a 93% increase in CHAMPUS costs.

In response, numerous programs were initiated in an attempt to control CHAMPUS costs. These include the CHAMPUS Reform Initiative, Southeast Fiscal Intermediary Program, and Primary Care for the Uniformed Services Program. Other programs such as Catchment Area Management and Gateway to Care targeted both MTF and CHAMPUS costs

within an MTF's catchment area. All of these programs applied principals of managed care which included lower co-pays and deductibles under CHAMPUS and in some cases enrollment to influence beneficiary and provider behavior in an effort to control costs.

A USAMEDDAC commander is responsible for the delivery of health services to Army beneficiaries residing in his or her Health Service Area (HSA) (Army Regulation 40-4, 1980). The HSA of the FGGM USAMEDDAC includes the states of Delaware and Pennsylvania (less the city of Philadelphia); the state of Maryland less the counties of Charles, St. Mary's, Montgomery, and Prince Georges; five counties of West Virginia bordering on south-western Maryland; and five counties in the north-eastern portion of Virginia (Health Services Command Regulation 40-21, 1992). While the FGGM USAMEDDAC's HSA is much larger than the CEKSF area of operations, the HSA does not include Ohio or the portions of West Virginia falling within CEKSF's scope. The areas in Ohio are in the Fort Knox, Kentucky USAMEDDAC's HSA and the areas in West Virginia are in the Fort Belvoir, Virginia USAMEDDAC's HSA.

Catchment areas are geographic areas within the HSA established around MTFs. They define the beneficiary population which an MTF is resourced for and expected to serve. The size of the catchment area

varies dependent on whether the MTF provides inpatient services.

Medical treatment facilities with inpatient services have a 40-mile catchment area. In its purest form, this is a compilation of zip-codes within a 40-mile radius of the MTF. Many times this area is adjusted due to its overlapping with another MTF's catchment area or due to a geographic barrier such as a river which would limit accessibility (Defense Management Information System, 1993).

An MTF which offers only outpatient services is assigned a 20-mile catchment area. The operational impact of the catchment area also differs dependent on whether it is an inpatient MTF or outpatient MTF catchment area.

An inpatient MTF's catchment area has two aspects which significantly impact on how health care is delivered. First, the MTF is funded for and responsible for all beneficiaries residing in the catchment area regardless of their branch of service. Therefore, all care to beneficiaries residing within the catchment area that is provided directly by the MTF and through CHAMPUS is funded directly by the MTF or by the MTF's branch of service. Secondly, beneficiaries must obtain pre-approval (i.e., a non-availability statement) from the MTF prior to obtaining any non-emergency

inpatient services or selected outpatient procedures (see Table 1) through the CHAMPUS program (CHAMPUS Public Affairs Branch, 1992).

Insert Table 1 about here

The CHAMPUS beneficiaries residing in an outpatient MTF's catchment area are not required to obtain a non-availability statement. Although eligibility for care at the MTF is not service specific and is funded for by the MTF's service, all CHAMPUS charges are paid by the beneficiary's service and not necessarily by the parent service of the MTF.

The DOD OA system provides for the health care of active duty beneficiaries residing in a remote area. In the FGGM USAMEDDAC HSA this is defined as 60 miles from the nearest MTF. In addition to active duty beneficiaries, the OA system also provides full health care for Title 10 Active Guard and Reserve beneficiaries, emergency care and limited primary care for individuals on active duty for training and similar training activations, quadrennial physical examinations for Reserve personnel, follow-up care for injuries which occurred in the line of duty, and Reserve Officer Training Corps (ROTC) physical examinations (Army Regulation 40-3, 1985; Health Services Command Pamphlet 40-4, 1987).

Open allotment costs are always paid by the parent service of the beneficiary. As earlier mentioned, certain health care such as physical examinations or medical boards must be performed by a federally employed physician. Likewise, elective procedures are not authorized. The local commander may approve non-specialist care which does not exceed \$250 for the entire episode of care.

Pre-approval is not required in the case of emergencies. Any other care must be pre-approved by the beneficiary's parent service MTF (Army Regulation 40-3, 1985).

Army OA bills are paid out of a central account at U.S. Army
Health Services Command (HSC). Bills are submitted by the
beneficiary to the medical claims office of the servicing MTF.
Historically, all claims were paid at the billed rate. Diagnosis
Related Groups (DRG) and Usual and Customary Rates were not used.
Starting in June of 1991, all hospital bills were processed by the
regionally-based CHAMPUS Fiscal Intermediary (FI) for payment under
the DRG system (Lanoue, memorandum, 1991, June 25). All other claims
to include inpatient and outpatient professional fees are still paid
at billed charges.

The FGGM USAMEDDAC has experienced a historical problem with timeliness of claims payments and at one time had a 10 to 11 month backlog. Additional staff were hired in 1989 and the current time from receipt to payment is 30 to 60 days depending on the date of the month the claim is received. Claims received in June, for example, are processed in July. However, this time lengthens considerably if the claim is inaccurate or incomplete and can take from three months Consideration for approval of OA care should up to a year. include: the potential need for authorized absences such as convalescent leave or quarters following care, travel expenses for the unit, loss of duty time, and cost of local care (Davis, information paper, 1990). Currently, the FGGM USAMEDDAC approves virtually all OA requests for physical therapy, most diagnostic procedures, all deliveries, and most medications. Very few requests for surgical care under OA is approved. All requests are dealt with on a case by case basis (LaMarca, interview, February 18, 1993).

Many of the current managed or coordinated care programs have met with varying degrees of success. Absent from these initiatives was a concerted application of the tools of coordinated care to both CHAMPUS and OA beneficiaries in non-catchment areas.

PURPOSE STATEMENT

The purpose of this project is to evaluate alternatives to the current health care delivery mechanism utilized by beneficiaries located in and around Pittsburgh and to propose the most effective method for improving access while ensuring resource efficiency for OA and CHAMPUS beneficiaries. The alternatives evaluated against the current system include initiating a health maintenance organization-like contract, instituting interagency reimbursement of local VA facilities, and opening of a DOD clinic.

DATA COLLECTION

GENERAL

For this analysis, FY 90 population and CHAMPUS data and FY 91

OA data was used. There can be a significant delay between the date
a particular CHAMPUS service is received and the date that the
charges for those services are reflected in CHAMPUS reports.

Eighteen months are permitted for initial filling of a claim.

Additional delays may occur if there are any problems with the claim.

Charges for a service received on the last day of FY 1990 may not be
included on a full fiscal year's report until FY 92. Therefore,

FY 90 data was intentionally requested to ensure complete data was
received on CHAMPUS services. Data on population figures were also
obtained for FY 90 to allow for accurate cost per beneficiary
analysis. Fiscal year 91, the latest complete year of data available
at the time of collection, was used for OA to minimize the impact of
the transition to DRG-based reimbursement for hospital claims.

The CEKSF area has seen little change in population since

FY 90. Base closures and the reduction in force (downsizing) have
had minimal to no impact on the population supported (Burns,
interview, December 10, 1991). Therefore, it is assumed that the
population and demand for services is unchanged.

POPULATION

The goal of the first phase was to identify the geographic location, eligibility categories, and service branches of the beneficiary population residing in the CEKSF area of responsibility. The beneficiary population was obtained via special request from the Defense Management Information System (DMIS) which utilizes Defense Enrollment Eligibility Reporting System (DEERS) data. Fiscal Year 1990 data was provided for the 17, three digit zip codes which comprise the majority of the CEKSF area of responsibility. The beneficiary population of each three digit zip code was broken out by branch of service (Army, Air Force, Marines, Navy, Navy AFloat (those dependents of active duty who were currently serving at sea), Coast Guard, and Other) and further broken out for each branch of service by beneficiary category (Active Duty, Dependent of Active Duty, Retiree, Dependent of Retiree, Guard/Reserve, Dependent of Guard/Reserve, Survivor, and Other (e.g., those authorized health care as a presidential designee).

All beneficiaries with branches of service other than Army were compiled into an Other category. The Other category represents those beneficiaries whose care and associated funding is not currently provided by the FGGM USAMEDDAC or HSC. The various beneficiary

categories were compiled into eligibility categories of: (a) Open Allotment, (b) Dependent of Active Duty (DofAD), (c) Retirees, Dependents of Retirees, and Survivors (RET/DofR/SV), and (d) Direct/Non-CHAMPUS Eligibles (DIR/Non-CHAMP). This data is depicted in Table 2.

Insert Table 2 about here

The OA category includes all active duty beneficiaries, to include Guard/Reserve, whose care is provided either through OA or the direct care system. Direct care refers to the care available at any MTF or DOD designated facility. The ROTC students who are eligible for health physicals under OA are not included in these population figures. The CHAMPUS eligible categories include those beneficiaries authorized care through either CHAMPUS or the direct care system. The final category of Direct/Non-CHAMPUS eligibles includes those who are eligible for care under the direct care system but are not authorized care under CHAMPUS. This category is principally comprised of Medicare eligible beneficiaries but also includes small numbers of other categories such as dependent parents of service members.

OPEN ALLOTMENT COSTS

Data collection for OA costs presented the greatest challenge. Open allotment claims are manually processed and input into the Standard Army Finance System (STANFINS). The STANFINS is a single entry cost accounting system which was not designed for medical claims processing. Thus it does not have the capability to provide meaningful medical claims data reports. No central data base could be identified which would provide OA data by zip code or site and type of care rendered (i.e., hospitalization or outpatient, internal medicine or orthopedic).

Consequently, computer printouts of 10,704 OA claims approved for payment of \$4,375,034 in FY 91 for the FGGM USAMEDDAC HSA were obtained from STANFINS. Since the FGGM USAMEDDAC claims office only processes Army OA claims within its HSA, the computer printout did not include non-Army OA claims or claims of those beneficiaries residing in the WV or OH zip codes which are in the Fort Belvoir and Fort Knox USAMEDDAC HSAs respectively. The following methodology was used to estimate the services' total OA costs for all zip codes included in the study.

The printouts of OA data contained the payee's name and address, contract number, date paid, and voucher number. The

printouts were manually screened for payee addresses with zip codes matching those in the area under study. Where possible, the type of care was identified by the name of the payee (e.g. Harbor Hospital, John Smith, M.D.). From these printouts it was determined that the total cost of all OA claims for the zip code area was \$1,644,640. This total only includes Army claims and, as noted earlier, excludes the three zip codes of West Virginia and Ohio. This total was divided by the total Army beneficiary population of the 14 Pennsylvania zip codes to obtain an average cost per beneficiary of \$1,023. This figure is slightly inflated since the ROTC student population is not included in the population figures but the cost of their physical examinations is included in the OA costs. To adjust this FY 91 cost to FY 93 dollars, the cost per beneficiary was increased by 6.2% which equals two years of the three year 9.3% inflation experienced in CHAMPUS costs in HSC catchment areas not participating in the managed care program Gateway to Care, or the CHAMPUS Reform Initiative from FY 90 to FY 93 (Noyes, 1993). The resulting cost per beneficiary in FY 93 dollars was \$1,086.20. This figure was then multiplied by the OA population of each zip code for the service categories of Army and Other. The result is depicted in Table 3.

Insert Table 3 about here

Claims were categorized, when identifiable, in the categories of Physician (including inpatient and outpatient charges), Laboratory and Radiology, Mental Health, Hospital, and Pharmacy. When the type of claim was not definitively discernable from the payee's name, the claim was categorized as other. The percentage of total claims for

Insert Table 4 about here

each category was obtained (see Table 4) and then applied to the total claims for each zip code (see Table 5).

Insert Table 5 about here

Inpatient and outpatient physician fees could not be differentiated and, as indicated above, are both included in the category physician. In all cases where the payee was the service member filing the claim, the cost was assigned to the category Pharmacy. This method was adopted at the recommendation of the Chief of Medical Claims who, based on her experience in processing and reviewing claims, stated that virtually 100% of such claims were for pharmaceuticals. The relatively low dollar amounts associated with

claims paid directly to the service member supported this opinion.

Although this likely introduced some level of error, it was not possible to more accurately identify the type of care when the service member was the payee.

It is important to note that the average cost per beneficiary of \$1,086 does not include the cost of care provided to beneficiaries in MTFs. Only crude records of denials for care under the OA system were maintained by the FGGM Office of the Deputy Commander for Clinical Services. The amount and cost of care provided at an MTF was estimated during the analysis phase of this project. Other categories of care such as dental, optometry, and ambulance claims were excluded in this analysis.

The validity of estimating total DOD OA costs by averaging Army claims data relies on two main assumptions. First it assumes that the per capita demand for health care among the services is equal. It further assumes that the frequency with which the various services require the beneficiary to obtain his or her care at an MTF is equivalent. This method of averaging across a large number of zip codes also provided an advantage by minimizing the impact of sporadic acute episodes of illness or injury for any one zip code during the data collection year.

As previously mentioned, a DRG-based reimbursement system was initiated in June of 1991. Although it is assumed that this lowered inpatient claim costs, the actual effect is not known. The actual inflation in OA claims between FY 91 and FY 93 is also not known and therefore the CHAMPUS inflation factor (6.2%) was used. During this period, the CHAMPUS maximum allowable reimbursement rates were reduced twice. Since all but impatient charges under OA are reimbursed at the billed amount it is likely that the actual inflation exceeded the 6.2% used.

CHAMPUS USAGE AND COST

Fiscal year 1990 data on CHAMPUS usage and costs was obtained from the Tri-Service CHAMPUS Statistical Database maintained by Health Care Systems and Clinical Investigation Activity, a Field Operating Agency of HSC. Visit and cost data was provided in ambulatory and inpatient professional services data sets. Another data set included admissions and costs for hospital services. Each set was broken out by beneficiary category (Active Duty, Dependent of Active Duty, Retiree, Dependent of Retiree, Guard/Reserve, Dependent of Guard/Reserve, Survivor, and Other) and branch of service (Army, Air Force, Marines, Navy, Navy AFloat, Coast Guard, and Other).

The CHAMPUS usage and cost data was compiled into the same categories used for the population data (the service categories of Army and Other and the beneficiary categories of DofAD and RET/DofR/SV).

The FY 90 CHAMPUS cost data was increased by 9.3%, which was the CHAMPUS inflation rate experienced in HSC catchment areas which were not participating in the managed care program, Gateway to Care, or the CHAMPUS Reform Initiative (Noyes, 1993). The outpatient, hospital, and inpatient professional data are shown in Tables 6, 7, and 8. All three figures include patient costs, third party payments (private insurance) and government costs. Table 6 includes the

Insert Tables 6, 7, and 8 about here

number of outpatient visits, Table 7 includes the number of hospital admissions and bed days, and Table 8 includes the number of inpatient professional services provided.

ANALYSIS

ALTERNATIVE DELIVERY MECHANISMS

Three potential health care delivery methods will be evaluated against the current system of OA, direct care, and CHAMPUS. The first is establishing a military health clinic in the Pittsburgh area to provide primary and limited specialty care to all categories of beneficiaries. The second is to establish an agreement with the Department of Veterans Affairs to provide all inpatient and outpatient services to OA beneficiaries. The third is to contract with a Health Maintenance Organization (HMO) for all categories of beneficiaries on a per member per month reimbursement schedule.

Clinic Option

The Clinic option assumes that family practitioners would staff the clinic. Consequently, full primary and some specialty outpatient care such as pediatrics and gynecology would be available. The clinic would have limited laboratory and radiologic capabilities. The clinic would not have a pharmacy. Pharmaceuticals would be available under a pre-pack system for dissemination by the clinic providers. Refills for pharmaceuticals dispensed under the pre-pack system would be filled by the KACH pharmacy and mailed to the clinic. Prescriptions written by civilian providers would not be filled under

this system. Therefore, only those beneficiaries using the clinic would have access to pharmaceuticals. Other beneficiaries could make use of a DOD experimental mail-in pharmacy system which includes the state of Pennsylvania and is scheduled to start in January 1994.

Fort Ritchie U.S. Army Health Clinic (AHC), a remote clinic of the FGGM USAMEDDAC, was used as a model for the Pittsburgh clinic and costs were derived from Fort Ritchie's FY 93 operating budget.

Fort Ritchie serves a smaller population but has a similar mix of beneficiary categories. Additional staff and associated costs, to include physicians, were added to provide additional care capability. Open allotment beneficiaries would be required to use the clinic. The clinic would be open to all other categories of eligible beneficiaries on a space available basis.

Veterans Affairs Option

The second option of using VA assets in the Pittsburgh area assumes that the VA would be willing to provide a full range of outpatient and inpatient care to OA eligible beneficiaries at FY 93 Army MTF interagency reimbursement rates. It further assumes that the VA would dedicate and hire, if necessary, the staff required to provide appropriate access. Although OA beneficiaries are eligible to receive care at VA facilities, they are currently seen on a space

available priority and encounter limited access and lengthy waits.

Previous attempts to utilize VA assets under these conditions were unsuccessful. Open allotment beneficiaries would be required to use VA for their care. The DofAD and RET/DofR/SV populations would continue to use CHAMPUS and Medicare for their care.

Health Maintenance Organization Contract Option

The third option of contracting with a civilian HMO in the Pittsburgh area is patterned after the new DOD sponsored U.S. Family Health Plan (USFHP) which replaced the U.S. Treatment Facilities in October of 1993. However, unlike the Baltimore USFHP, under this option OA beneficiaries would be eligible and required to enroll. Other categories of beneficiaries would be offered the option to enroll. The HMO would be reimbursed at a per member per month, gender and age based rate. They would provide all outpatient and inpatient care required.

GEOGRAPHIC FOCUS FOR ANALYSIS

Since the single military Clinic option would serve a much smaller geographic area than would a multi-facility Contract option, the area of study was reduced to equitably compare the various health care delivery options. Although the standard CHAMPUS catchment area for an outpatient clinic is a twenty-mile radius, the FGGM USAMEDDAC's experience with its seven outlying clinics suggests that this is an extremely artificial boundary for defining the population served. Dunham AHC, an outlying clinic located at Carlisle Barracks, Pennsylvania, reports that soldiers have driven 200 miles from Pittsburgh, PA to receive elective care from them. The inaccuracy of the 20-mile radius is particularly significant in the case of retirees, who regularly drive in excess of 60 miles to receive their care. Although this effect is likely greater in rural areas than in urban areas where traffic congestion can increase driving times for similar distances, the assumption was made that a standard 20-mile radius would not accurately reflect the population which a Pittsburgh clinic would serve.

Therefore, the area of study was adjusted from the standard 20-mile radius to include zip code areas which included population centers located just outside the 20-mile radius with appropriate road

networks to support access into the greater Pittsburgh area.

However, since population data was obtained by three digit zip, this required the inclusion of a large geographic area which could extend up to 50 miles distant from the geographic center of downtown

Pittsburgh. The zip code areas chosen for inclusion in the analysis were the Pennsylvania zip code areas of 150, 151, 152, 153, 156, and 160, the West Virginia zip code of 260 and the Ohio zip code area of 439. Figure 1 shows a sketch map of the area and Table 9 provides a

Insert Figure 1 about here

description of their geographic locations and major roads providing access to downtown Pittsburgh.

Insert Table 9 about here

The zip code areas of 150, 151, and 152 all fall within a 20-mile radius of downtown Pittsburgh and include 77% of the OA population. Only two active duty units supported by CEKSF are located outside this three zip code area in zip codes 153 and 160 (see Table 10). This area also contains a high percentage of the other populations to include 57% of the CHAMPUS eligible population

Insert Table 10 about here

and 64% of the Medicare eligible population. The zip code areas of 153, 156, 160, 260, and 439 include areas up to 50 miles from the geographic center of downtown Pittsburgh. Aggregate population, OA, and CHAMPUS data for this study area is at Table 11.

Insert Table 11 about here

CRITERIA UTILIZED TO COMPARE OPTIONS

The criteria used to compare and evaluate the options were grouped into two primary categories and are shown in Table 12. The first group of Government Criteria included three criterion:

Insert Table 12 about here

(a) the total government cost for care under the option, (b) the degree to which the government could exercise control and maintain the flexibility to meet any changes in population or health care demand, and (c) how well each option supported unit command and control over OA beneficiaries.

The second group of criteria focused on customer satisfaction.

This group included criteria which evaluated: (a) the cost to the patient, (b) the geographic convenience of health care sites, (c) the simplicity of the system, and (d) the freedom to choose where and by whom they could receive their health care.

DECISION MATRICES

Government Criteria Decision Matrices

Cost to Government Decision Matrix

Contract Option

The cost under the Contract option was based on the reimbursement rates of the Baltimore, Maryland USFHP. This reimbursement schedule is gender and age based and is shown in

Insert Table 13 about here

Table 13. The population data did not include gender and age so a number of assumptions were made to obtain an estimated cost.

For the OA eligible population it was assumed that there was equal distribution among the age groups 15-24, 25-34, and 35-44. It was also assumed that 70% of the population was male and 30% female. Although the overall Army population includes a higher percentage of the lower age categories and lower percentage of females, active duty personnel assigned to the Pittsburgh area are not a typical Army population such as that found at a divisional post. This population is comprised principally of headquarters type units (see Table 10) and includes significant numbers of other than Army OA beneficiaries which would also affect the normal mixes. Additionally, the first

age category of 15-24 includes three ages (15 to 17) which would not be present in the OA population (see Table 14). Thus, the first age category includes only 7 ages versus the 10 year age groups in the later two categories and is therefore more heavily weighted. Since enrollment for OA eligible beneficiaries under this option is mandatory, 100% enrollment cost was calculated for 2,099 beneficiaries to be \$3,031,166 (see Table 14).

Insert Table 14 about here

For dependents of active duty it was assumed that one-third of the population were spouses and the remaining two-thirds were dependent children. For dependent children, an equal distribution by age was assumed. The total ages contained in the age groups <2, 2-14, and 15-24 is 22 years (only the ages of 15-21 were considered in the later age group). Therefore, the age group <2, which contained two ages, had 9.1% of the total population. Since only under certain circumstances can children aged 18-21 retain eligibility, the later age group of 15-21 may be inflated. It was also assumed that there was an equal distribution between males and females. The final assumption was that 50% of the eligibles would join the plan while the remaining 50% would continue to use CHAMPUS.

For spouses of active duty, an equal age distribution among the age groups of 15-24, 24-34, and 35-44 was assumed. The first age group of 15-24 includes only ages 18-24 and is therefore intentionally skewed to match the OA population. Although there may be dependent spouses with an age greater than 44, it was assumed to be minimal and not considered. Mirroring the gender ratios of the OA eligible population, it was assumed that 70% of spouses were female and 30% male. It was also assumed that 50% would choose to join the plan.

The contract cost of providing care for 1,775 dependent spouses and 3,550 dependent children was \$3,720,278. Along with the remaining 50% of the CHAMPUS costs (\$2,651,125), the total cost for dependents of active duty under the Contract option was \$6,371,403 (see Table 15).

Insert Table 15 about here

The retiree and dependent population consisted of those that were CHAMPUS eligible and those that were Medicare eligible. For the CHAMPUS eligible population, an equal distribution by gender and age was assumed for the age groups 45-54 and 55-64 and it was assumed that 50% would choose to join the plan. An equal gender distribution

was assumed for the Medicare eligible age groups of 65-69, 70-74, 75-79, 80-84, and 85+. It was assumed that 90% of the population fit into the first three groups (33.33% each) and of the remaining 10%, 8% fit into the 80-84 group and 2% in the 85+ group. The age and gender assumptions made in the Medicare eligible category are the most likely to introduce error. For example, the longevity of females in comparison to males challenges the assumption of equal gender distribution. It was also assumed that 50% of this population would join the plan. This may be underestimated as the USFHP benefits are much better than Medicare and may attract a higher percentage of this population.

The cost under the Contract option for the CHAMPUS eligible population was \$12,307,804 and the remaining CHAMPUS costs were \$2,597,808 for a total cost of \$14,905,611. The contract cost for the Medicare eligible population was \$13,203,498 (see Table 16). It

Insert Table 16 about here

is important to note that costs generated from the Medicare eligible population is all new cost. Currently, the DOD incurs no cost under the OA and CHAMPUS systems for the Medicare eligible population.

However, existing law does not permit differentiating between CHAMPUS

and Medicare eligible retirees and their dependents. Since this option would be open to the CHAMPUS eligible RET/DofR/SV population, the Medicare eligible population (DIR/Non-CHAMPUS) had to be included in cost calculations.

The total costs for all populations under the Contract option was \$37,511,678. This amount was reduced by 50% of the total amount of CHAMPUS health care which was funded by third parties such as private insurers for the 50% of the total population which enrolled. The HMO would be expected to recoup this money by billing third party payors. The adjusted government cost is 36,736,820 (see Table 17).

Insert Table 17 about here

Government Clinic Option

Five areas of cost were considered in the Clinic option:

(a) clinic operating expenses, (b) cost of CHAMPUS remaining, (c)

cost of OA remaining, (d) cost of direct care remaining, and (e) cost

of TDY for direct care. As previously stated, the cost of operating

a clinic was based on the operating expenses and workload/staff

capabilities of the Fort Ritchie AHC. The Fort Ritchie AHC serves a

population of 1,320 active duty beneficiaries (Cameron, 1993). Based

on their reported active duty workload of 6,788 visits, each active

duty beneficiary accounts for 5.14 visits per year. Assuming that the OA eligible beneficiaries in the Pittsburgh area have a similar demand for health care, the total Pittsburgh population of 2,099 at 5.14 visits per year per beneficiary would result in a demand for 10,789 visits per year.

The Fort Ritchie AHC had three providers during

FY 93, who provided a total of 14,896 visits to all categories of

beneficiaries. With an OA visit demand of 10,789, three providers in

a Pittsburgh clinic would leave very little space available care for

other beneficiaries and CHAMPUS recapture. Therefore, it was

determined that a fourth doctor would be needed under this option.

The supply, equipment, contract, rental, and civilian and military pay costs for the Fort Ritchie AHC were acquired for FY 93 from the Medical Productivity Reporting System, an automated expense reporting system maintained by the Resource Management Division of the FGGM USAMEDDAC. These costs were adjusted to account for the addition of the fourth physician. The resulting total cost was \$1,174,500. This clinic operating cost does not include start-up costs, facility rental if necessary, costs of utilities if operating in a civilian building, or the overhead of administrative support received from the FGGM USAMEDDAC. Therefore it may be a significant

underestimate of the true expense, particularly if the facility is located in a rented civilian building.

The addition of a fourth physician gives the clinic a total visit capacity of 19,861. Subtracting out the OA demand of 10,789 leaves 9,072 visits available for other beneficiaries. The total CHAMPUS outpatient demand in the Pittsburgh area of study was 37,313 (see Table 11). The available 9,072 visits falls far short of this demand. However, under the assumption that only 50% of the eligible population would use the clinic and of that only 50% of the type of care they desired would be available at the clinic, the demand falls to 9,328, which is very close to the available visits. Based on this assumption, and by further assuming that these visit percentages can be applied to CHAMPUS costs, the clinic will recapture 25% of the total outpatient CHAMPUS cost of \$3,716,531 or \$929,133. Remaining outpatient CHAMPUS cost would total \$2,787,398. Including 100% of inpatient professional and hospital costs, the total CHAMPUS cost would be \$9,568,733.

Open allotment costs could not be eliminated under a Clinic option. Table 18 depicts those OA costs which could be recaptured

Insert Table 18 about here

and those costs which would remain. It was assumed that 100% of known pharmacy costs could be recaptured. Since the OA category of Physician includes inpatient professional fees as well as specialty care which may not be available at the clinic, only 70% of these costs were included in the recapture figure. While the clinic will have laboratory and radiology capability, it was assumed that some studies and tests would still have to be provided by civilian sources. Therefore, only 80% of these costs were counted for recapture. No recapture in the Mental Health and Hospital categories was included. The Other category included claims that were not definitively identifiable. Upon a subjective review of the payees' name and address on the OA data it appeared likely that many of the unidentifiable claims included pharmacy costs and physician charges made through a billing service. Therefore, it was assumed that 25% of these "other" costs could be recaptured. Based on the above assumptions, the total OA costs recaptured would be \$576,546 and the OA costs remaining would be \$1,703,385.

Data on the current direct care costs of serving the OA beneficiaries was not available. Out of 273 requests in the FGGM USAMEDDAC HSA for OA during the six month period 1 October 1992 to 31 March 1993, only 17 requests, or 6.23%, were disapproved, thus

requiring the beneficiary to use the direct care system only 6.23% of the time. Denials were not identified by unit or location, so the 6.23% denial rate is based on the entire FGGM USAMEDDAC HSA.

Travel distances are a factor in deciding to approve or disapprove OA requests. The greater the distance to the USAMEDDAC, the more likely the request will be approved. Since Pittsburgh is over 200 miles distant, it is likely that the disapproval rate for requests from the Pittsburgh area are lower than 6.23%. However, the completeness of the informal records maintained on these denials is questionable. Some requests were never logged in. Additionally, not all direct care is associated with a denial. Some care is obtained from the direct care system by choice, when the care is not obtainable under the OA system, or when through experience the beneficiary knows it will be denied. Based on these facts, it was estimated that 7% of the OA population's care was received from the direct care system.

What type of care and the cost of that care was also not available. Consequently, direct care costs were estimated from OA costs. It was assumed that on the average it cost the direct care system 25% less than what the government paid civilian sources under the OA system for care. Therefore, direct care costs were estimated

to be 7% of the total OA costs (\$159,592) and then reduced by a 25% efficiency factor to yield an adjusted total direct care cost of \$119,696.

The clinic would not have the capability to recapture much of this direct care cost as it is typically associated with inpatient or sub-specialist care. Only physical examinations and other basic outpatient care could be accomplished by the clinic. Therefore, it was estimated that only 20% (\$18,978) of this care could be recaptured leaving a remaining direct care cost of \$100,718.

The final cost under the Clinic option is the cost of TDY for obtaining care from an MTF. This cost data was also not available and was estimated from population and visit per year data. The Fort Ritchie AHC average of 5.14 visits per beneficiary per year (PBPY) was inflated to 6.0 visits PBPY to account for the fact that Fort Ritchie currently refers patients to other MTFs for impatient and specialty care which makes their average artificially low for this comparison. The 6.0 visits PBPY was multiplied by 7% to determine the amount of total care required from the direct care system PBPY and then multiplied by the total OA population of 2,099 to determine that 882 total visits would be required from the direct care system. The average TDY cost of a trip was estimated at \$175. This included

reimbursement for a 400 mile round trip at \$0.25 per mile and \$75 per diem for one overnight stay. Assuming that each visit represented one night and one trip to the FGGM USAMEDDAC, the TDY cost for direct care was estimated at \$154,350. Since the clinic is only recapturing 20% of the direct care workload, the savings would be \$30,870 and the remaining TDY cost would be \$123,480.

The total cost of the Clinic option to include the cost of the clinic and the cost of the remaining CHAMPUS, OA, direct care, and TDY was \$12,670,816 (see Table 19). The savings in CHAMPUS, OA, direct care, and TDY of \$1,555,527 would provide a net savings of

Insert Table 19 about here

\$381,027 over the clinic cost of \$1,174,500. Under the assumption that the clinic would recapture 25% of all outpatient CHAMPUS workload, the clinic could potentially recoup 25% of the total CHAMPUS outpatient third party payments of \$582,168. Thus the clinic cost could be reduced by \$145,542 through collections from private insurance.

Veterans Affairs Option

The cost of the VA option was calculated using FY 93

Interagency Rates (Health Services Command Electronic Message, 1992).

Inpatient per day rates were \$728 for general medical care, \$958 for general surgical, \$826 for orthopedic, \$621 for family practice, \$448 for same day surgery, and \$931 for obstetrics and gynecology (OB/GYN). Since OA inpatient care by specialty was not available, equal distribution of demand among all inpatient specialties was assumed (excluding OB/GYN for males). The average cost per bed day The number of for males was \$726.20 and for females was \$760.33. bed days required was estimated from the population using the DOD-based RAND corporation standard of .1338 admissions PBPY (Cornell, personal communication, October 25, 1993) and an estimated average length of stay (ALOS) of three days per admission. The population, admission rate, and ALOS were multiplied to determine a total bed day requirement of 843. Assuming a proportional demand for bed days between males and females, 70% (590) of these bed days were multiplied against the male average cost per bed day and 30% (253) against the female average cost per bed day to determine a total cost of \$620,633 for inpatient care (see Table 20).

The FY 93 outpatient interagency reimbursement rate is \$94 per visit. The demand for outpatient visits was estimated using the Fort Ritchie AHC average of 5.14 visits PBPY multiplied by the OA population of 2,099 to yield a total visit demand of 10,789.

Insert Table 20 about here

At \$94 per visit, the outpatient cost was \$1,014,153. The total inpatient and outpatient cost for care from the VA to OA beneficiaries was \$1,634,787. This was then inflated by 15% to cover VA administrative costs, to provide an incentive for increased access, and to make the overall proposal more attractive to the VA. Since the VA would only provide care to OA beneficiaries, all CHAMPUS costs would remain the same. The total cost of the VA option was \$12,377,871 (see Table 20).

Current System

The Current System costs include \$2,279,932 in OA claims, \$10,497,866 in CHAMPUS costs, \$119,696 in direct care and \$154,350 in TDY costs as calculated for the Clinic option. The total cost of the Current System is \$13,051,844.

Government Cost Summary

The VA option at a cost of \$12,377,871 and the Clinic option at a cost of 12,570,816 both showed a savings over the current system and were ranked at 1 and 2 respectively. The Current System option at a cost of 13,051,844 was ranked at 3. The Contract option at a

cost of 36,736,820 resulted in an increase over the current system and was ranked at 4.

Control and Flexibility Decision Matrix

The control and flexibility criterion is a subjective assessment of the government's ability to ensure efficiency, quality, and access for care received under the various options. Three subcriteria were established which assessed the government's ability to: (a) monitor quality and customer satisfaction and take action to address customer concerns, (b) adjust services to meet a changing environment or customer needs, and (c) control costs in future years.

Option Weight Development

It was necessary to develop option weights at this point since the impact of each option on the total health care need of the beneficiary population is a function of the amount and type of care demanded by each beneficiary category and the amount and type of care available for each beneficiary category under the various options. Therefore, a beneficiary category weight was developed for each option. These weights factor the percent of demand for outpatient visits and inpatient admissions against the amount of care available for outpatient visits and inpatient admissions under each option for the beneficiary categories of OA, DofAD, and Other (RET/DofR/SV).

To obtain these weights, the decimal percent for outpatient demand relative to total demand for each beneficiary category and the decimal percent of outpatient availability relative to total availability for each option were multiplied. The same was done for inpatient demand and availability. The products were then summed to develop a weight by beneficiary category for each option. For example, the demand from the DofAD population was 17,904 outpatient visits and 903 admissions. Thus the percent demand for outpatient care was 95.20% and for admissions was 4.80%. These percentages were then multiplied against the percent of the demand which would be provided under each option. In the Clinic option the DofAD population would receive 25% of their outpatient and 0% of their inpatient care from the clinic. Multiplying the decimal percents of demand and availability for outpatient and inpatient care results in a value of .24 for outpatient and .0 for inpatient, since none of the DofAD population's demand for inpatient care will be met by the clinic. These values were then summed to obtain a weight of .24 for dependents of active duty under the Clinic option.

These weights were then multiplied by the ranking of each option. If the Clinic option was ranked at 3 with a weight of .24, the final score would be .72. Since the care which could not be

provided under the option would be received under the current system,

1 (100% of demand) less the weight, or .24 in this example, was

multiplied by the rank assigned to the Current System. The two

scores were summed to assign a final score for each beneficiary

category for each option. These calculations and the final weights

for each beneficiary category under each option are at Table 21.

These option weights will be used in all the remaining criteria

analyses.

Insert Table 21 about here

Monitoring and Influencing Quality and Customer Satisfaction

The ability to monitor quality and customer satisfaction was evaluated as a function of how much of the population's care was received at a known location or locations and how easy it would be for the government to influence operations and modify staff behavior at those locations. The Clinic and VA options both offer care at only one site. However, the Clinic option was rated best for ability to influence operations since the clinic would operate under the direct control of the FGGM USAMEDDAC and the VA option would require modification of an agreement. Therefore the Clinic and VA options were ranked at 1 and 2 respectively. The Contract option would offer

care at a finite number of sites and influence over operations would be exercised through penalties built into the contract or contract modification. The Contract option was judged equal to the VA option for ability to influence, but with more sites to monitor, the Contract option was ranked at 3. The Current System was ranked at 4 since care is received at numerous locations which include many civilian sources which the government exercises little to no influence over. The ability to monitor the satisfaction of the chain of command as a customer does not differ among the options since the point of monitoring is the unit and this does not change between options.

Adjust Services

each option was determined to be greatest under the Clinic option since the clinic would operate under the direct control of the FGGM USAMEDDAC. The VA option was judged next best followed by the Contract option since the less formal VA agreement would likely be easier to alter than a formal contract. The current system would be least responsive to local service adjustments required by the Pittsburgh population.

Control Future Costs

The Clinic option was also judged to be best for controlling costs in future years for the same reason of direct control by the FGGM USAMEDDAC and was ranked at 1. The VA and Contract options were judged to be equally advantageous and were both ranked at 2.5. The contract agency would be selected in a competitive manner and thus introduce some cost controls. Cost controls would also be present by virtue of the capitated payment system. However, the contract agency would likely be profit oriented. The VA is not profit oriented and assuming the VA would continue to accept interagency reimbursement rates, inflation would also be controlled. However, since the VA option would be a fee for service operation, the advantages of capitation would be lost.

Although initiatives such as lowering the CHAMPUS maximum allowable reimbursement rates and conversion to DRG-based reimbursement in OA has the ability to control inflation, the lack of direct oversight does not prevent churning (unnecessary visits and procedures), creep (inflated coding of visits and procedures), and the practice of defensive medicine (unnecessary tests). Thus, the Current System was ranked last at 4.

Criterion Summary

The option ranks for each sub-criteria were multiplied against the beneficiary/option weights. The resulting values were summed for each individual beneficiary category and for combined beneficiary categories. These sums were then used to rank each sub-criterion by individual and combined beneficiary categories. The ranks of the individual and combined beneficiary categories for each sub-criterion were then summed and used to obtain individual and combined beneficiary category option rankings for the criterion Control and Flexibility.

The option ranking for the combined beneficiary categories from 1 to 4 was Clinic, Contract, VA, and Current System options. The ranking for the OA population in descending order were the Clinic, VA, Contract, and Current System options. For the DofAD population the Clinic option was ranked at 1 and the contract option was ranked at 2. The VA and Current System options were tied at 3.5. The RET/DofR/SV population ranking was Contract option at 1 and the remaining three options tied at 3 (see Table 22).

Insert Table 22 about here

Unit Command and Control Decision Matrix

This criterion is a subjective assessment of how well each option supports the following three sub-criteria related to unit command and control: (a) accountability, (b) dedicated care, and (c) military medical requirements. This criterion only relates to the OA population but did use the weights developed in the control and flexibility criterion.

The first sub-criterion of accountability ranks the options on how well they support a unit's accountability of its soldiers. It was assumed that fewer sites, fewer health care providers, and less mixing of the OA population with other beneficiary categories and civilians would enhance the ability of the option to achieve this goal. On the measure of number of sites, the Clinic and VA options with only one site each scored 1.5, the Contract option with more than one but a finite number of sites scored 3, and the Current System with the largest number of potential sites scored 4.

The Clinic option would have the least number of providers and was scored 1. The VA, Contract, and Current System options were scored 2, 3, and 4 respectively for increasing numbers of providers. The Clinic and VA options were judged to have the least potential for mixing populations and were both scored 1.5. The Contract option

adds civilian customers to the mix and was ranked at 3. The Current System was ranked at 4.

The second sub-criterion of dedicated care assesses the ability of each option to dedicate health care resources to the OA population in a manner conducive to unit missions. For example, how well will each option support morning sick-call by putting soldiers first so as to return them to work in as timely a manner as possible. The Clinic option with a primary mission of supporting the OA population would best fulfill this role and was scored 1. Under the assumption that the VA would dedicate appropriate resources to the OA population, the VA option was ranked at 2. The Contract option could dedicate specific resources to the OA population through contract requirements, but the OA population would still compete with civilian care for available resources. Therefore the Contract option was ranked at 3. The Current System offers no dedicated services under OA and was ranked at 4.

The third sub-criterion of military medical requirements was an assessment of each option's ability to appropriately and fairly administer military medical programs such as weight control, physical examinations, and medical boards. The Clinic option, by virtue of using providers employed directly by the FGGM USAMEDDAC, was ranked

at 1. The finite number of doctors and the ability to exercise control through agreements and contracts earned the VA and Contract options equal rankings of 2.5. The Current System was ranked at 4.

The ranks of the individual measures under the sub-criterion

Accountability were summed and adjusted by the weights. The

resulting values were then ranked. The rankings of the sub-criteria

Dedicated Care and Military Medical Requirements were likewise

adjusted for the weights and then ranked by the resulting values.

The weighted ranks were then summed for all sub-criteria and the

final ranking for the criterion Unit Command and Control was

determined. The Clinic option was ranked at 1, followed by the VA at

2, the Contract option at 3, and the Current System at 4 (see

Table 23).

Insert Table 23 about here

Customer Satisfaction Criteria Decision Matrices

Cost to Patient Decision Matrix

The criterion Cost to Patient accounts for the deductibles, co-pays, and user fees associated with each option. Since there are no costs for the OA population under any of the options, they were not included in the decision matrix for this criterion. The weights developed in the criterion Control and Flexibility were utilized to adjust the rankings. Since the VA option does not provide care for the DofAD or RET/DofR/SV populations, all of their care under the VA option was received from the Current System. Therefore, the VA and Current System options were equally ranked in all cases.

The Clinic option was ranked at 1 since there are no payments associated with care received in the clinic. The Contract option incorporates user fees. Overall, these fees are less than the deductibles and co-pays associated with CHAMPUS. They are significantly less for CHAMPUS eligible retirees who pay fewer user fees than other beneficiaries and for the DIR/Non-CHAMPUS population who receive their care under Medicare and must pay premiums for Medicare Part B and private insurance supplemental coverage to achieve similar deductibles and co-pays. The only area where CHAMPUS is potentially less costly is inpatient care for DofAD who only pay a

per diem subsistence rate of \$9.30 with no deductible or co-pay.

However, since the majority of care sought by this population is in the outpatient arena, the net result is higher overall costs under CHAMPUS. Therefore, the Contract option was rated 3 and the Current System and VA options were rated 4.

The rankings were weighted and the resulting scores ranked. For the combined beneficiary categories, the Contract option was ranked at 1, followed by the Clinic option ranked at 2 and the VA and Current System options both ranked at 3.5. The ranking for the DofAD category was the same as the combined. The Contract option was also ranked at 1 for the RET/DofR/SV category but the Clinic, VA, and Current System options were all ranked at 3.5 (see Table 24).

Insert Table 24 about here

Geographic Convenience Decision Matrix

The geographic convenience of the care would be a significant factor in utilization of the clinic and a decision to enroll in the Contract option. The geographic convenience which each option offers will also significantly impact on the satisfaction of the beneficiaries. Given the large geographic area of the study, providing care at only one site would likely be inconvenient for a

significant portion of the population. The option which provides the greatest geographic convenience is the Current System (ranked at 1). Civilian sources for care are available throughout the study area. The option providing the next most geographic convenience is the Contract option ranked at 2. The Clinic and VA options would both be available at only one location and were therefore both ranked at 3.5.

These option ranks were adjusted using the weights developed in the Control and Flexibility criterion. The adjusted scores were used to rank the option for combined and individual beneficiary categories. The combined beneficiary categories scores resulted in a rank of 1 for the Current System, 2 for the Contract option, 3 for the Clinic option, and 4 for the VA option. The rank order for the OA population was the Current System at 1, the Contract option at 2, the Clinic option at 3, and the VA option at 4. The VA and Current System options were ranked at 1.5 for the DofAD population since under the VA option the DofAD population receives their care from the Current System. The Contract option was ranked at 3 and the Clinic option 4. The Clinic, VA, and Current System options were tied for a rank of 2 for the RET/DofR/SV population and the Contract option was ranked at 4 (see Table 25).

Insert Table 25 about here

Simplicity Decision Matrix

The criterion simplicity gauges the ease with which each option can be effectively used by the beneficiaries. Simplicity should increase satisfaction. The administrative burden, such as claims filing, involved in each option was used to subjectively evaluate this criterion. It was assumed that under the Contract and VA options, the administrative burden would be on the contractor or VA and not the beneficiary. The Clinic option would likewise not place any administrative requirements on the beneficiary. Therefore, all three options were ranked at 2. The Current System places a significant administrative burden on the beneficiary through both the OA and CHAMPUS programs and was ranked at 4.

The ranks were adjusted by the weights developed in the Control and Flexibility criterion. The options were then ranked for the combined and individual beneficiary categories using the adjusted scores. The combined beneficiary scores revealed that the Contract option was most favorable overall and was ranked at 1. The VA option was ranked at 2, the Clinic option at 3, and the Current System was ranked at 4. The Contract and VA options were both ranked at 1.5 for

the OA population. The Clinic option was ranked at 3 and the Current System 4. The Contract option was ranked at 1 for the DofAD population followed by the Clinic option at 2, and the VA and Current System options both at 3.5. The Contract option was also ranked at 1 for the RET/DofR/SV population. The Clinic, VA, and Current System options all received ranks of 3 (see Table 26).

Insert Table 26 about here

Freedom of Choice Decision Matrix

The freedom to choose the provider and site of care can also be a significant factor in satisfaction. The criterion Freedom of Choice is a subjective assessment of the beneficiaries' freedom to choose where and by whom they will receive their care under each option. Two sub-criteria, Freedom of Provider and Freedom of Location were used to evaluate this criterion.

The Current System was judged to provide the greatest freedom in choice of provider. The Contract and VA options were each ranked at 2.5 since both offer a choice in provider which was judged greater than the choice of providers in the Clinic option which was ranked at 4.

The Current System was also ranked first for freedom of location. The Contract option offered the next most options in location for beneficiaries to choose from and was ranked at 2. The Clinic and VA options were ranked at 3.5 since they both offer only one choice in location.

The option ranks for each sub-criteria were adjusted by the weights developed in the Control and Flexibility criterion. The adjusted scores were used to rank the options for individual and combined beneficiary categories for each sub-criterion. The individual and combined rankings for each sub-criteria were summed and results used to rank the options for the criteria for individual and combined beneficiary categories.

For combined beneficiary categories, the Current System was ranked at 1 and the Clinic, VA, and Contract options were all ranked at 3. The OA population rankings also put the Current System at 1, but ranked the Contract option next at 2, the VA option at 3 and the Clinic option last at 4. For the DofAD population the Current System and VA options were tied at 1.5, followed by the Contract option at 3, and the Clinic option at 4. The Clinic, VA, and Current System options were tied at 2 for the RET/DofR/SV population and the Contract option was ranked at 4 (see Table 27).

Insert Table 27 about here

Combined Criteria Decision Matrices

Combined Beneficiary Category Decision Matrices

The option rankings for all criteria were summed and the resulting values used to provide overall rankings for the options.

The option rankings for the Government criteria and Customer Satisfaction criteria were also summed separately and then ranked.

The optimal option for all criteria was the Contract option ranked at 1, followed by the Clinic option at 2, the VA option at 3, and the Current System at 4. The best option for the Government alone, based on the Government criteria, was the Clinic option ranked at 1 followed by the VA, Contract and Current System options ranked at 2, 3, and 4 respectively. The best option for the beneficiaries, based on the Customer Satisfaction criteria, was the Contract option ranked at 1 followed by the Current System, VA, and Clinic options in descending order (see Table 28).

Insert Table 28 about here

The previous method results in all criteria having an equal impact on the outcome. However, some criterion were judged to be

more important than others. For example, the Government Cost of each option (strategy) was considered a more critical measure than was the Simplicity of the option. Therefore, the criteria (states of nature) were weighted using the Combined Arms Services Staff School -- Military Application Program Package. This automated program facilitates an analytical selection of weights through pair-wise comparison of the criteria. A decision is made for each criterion pair as to whether they are equally important, or if one criterion is Slightly Favored, Favored, or Strongly Favored over the other. In addition to the weights for each criterion, the statistical program calculated a consistency ratio for the judgements made regarding criteria favorableness.

Table 29 displays in matrix format the judgements made regarding favoring one criterion over another and the resulting

Insert Table 29 about here

weights. In view of current budget constraints, affordability was judged as the single most significant criterion. Therefore,

Government Cost was assigned a weight of 5.80. The Control and

Flexibility criterion was also weighted heavily at 3.84. The

delivery of quality care and ability to adjust services and control

costs in the future is crucial to the success of the option chosen.

The next highest weighted criterion was patient cost at 2.63 as it

was judged the most significant Customer Satisfaction criterion. The

unit command and control criterion received a weight of 1.64 since

the Army Medical Department's primary mission is health care to the

active duty in support of their mission. The remaining criteria were

weighted 1. The internal consistency of these weights was 92.29%.

These weights were applied to the criteria option rankings as in the previous decision matrix utilizing the automated decision matrix option also available in the Combined Arms Services Staff School -- Military Application Program Package. The resulting overall ranking was notably different from the non-weighted

Insert Table 30 about here

ranking (see Table 30). The weighted scores had the Clinic option, rather than the Contract option, ranked 1 followed by the VA, Contract, and Current System options ranked at 2, 3, and 4 respectively.

The automated decision matrix program also provides a sensitivity analysis to determine if the optimal option is sensitive to a change in a criterion's weight. The criterion Control and

Flexibility weighted at 3.84 was found to be sensitive at a weight of 0.84. Using these weights the optimal option would be the VA. It was necessary to use option ranks to achieve equitable comparisons between the criterion since the option scores were not analogous across criteria. However, this method did introduce some artificiality. Large differences and minimal differences in sum scores were concealed in the rankings. Whether an option's sum score exceeded another option's sum score by 10 or 1,000, it received a rank only one point higher. This effect was particularly present on the Government Cost criterion.

To measure this effect, the total government cost for each option was assigned a score based on the change in total cost from the current system. Scores were assigned at increments of 1 for every 10% in savings or increased cost. A negative value indicated a savings and a positive value indicated an increase in cost. For example, a 10% savings was scored -1 and a 20% increase was scored +2. The Current System was scored 0. The Contract option scored a +6. The VA and Clinic options both scored a -1 (see Table 31).

Insert Table 31 about here

These scores were used in place of rankings for the government cost criterion in the weighted combined beneficiary category decision matrix (see Table 32).

Insert Table 32 about here

Table 33 shows the option sum scores and rankings of the (a) unweighted criteria using option ranks, (b) weighted criteria using option ranks, and (c) weighted criteria using scores for the Government Cost criterion and option ranks for all other criteria.

Insert Table 33 about here

The delta between the Contract and Clinic options' weighted scores changed from 11.59 on the decision matrix using ranks to 40.59 when using scores. Although the Clinic option remained at a rank of 1 and the VA option at a rank of 2, the Contract option dropped from a rank of 3 to 4. None of the options were sensitive to changes in the criteria weights.

Individual Beneficiary Categories Decision Matrices

A weighted decision matrix was also developed for each individual beneficiary category utilizing that category's ranking from each criterion. One exception to this rule was made with the

criterion Government Cost which could not be broken out by beneficiary category and remained the same in all individual beneficiary category decision matrices. The OA decision matrix excluded the criterion Patient Cost since no cost was incurred by this population under any option and the DofAD and RET/DofR/SV decision matrix excluded the criterion Unit Command and Control as it does not apply to this population. This necessitated recalculating the criteria weights. Utilizing the method previously employed, and adjudging the same favorableness in comparison of criteria, the weights for the OA criteria were determined to be 5.10 for Government Cost, 2.90 for Control and Flexibility, 1.60 for Unit Command and Control, and 1.00 for the remaining criteria. The consistency ratio was 93.32%. The weights for the DofAD and RET/DofR/SV criteria were 4.90 for Government Cost, 2.70 for Control and Flexibility, 1.60 for Patient Cost, and 1.00 for the remaining criteria. The consistency ratio was 96.13%.

The OA decision matrix (see Table 34) resulted in a rank of 1 for the VA option, followed by the Clinic, Current System and Contract options at 2, 3, and 4 respectively. Sensitivity analysis

Insert Table 34 about here

found that four of the six criteria were sensitive at various weights as shown in Table 34.

The DofAD matrix (see Table 35) resulted in the Clinic option earning a rank of 1 followed by the VA option at 2, Contract option

Insert Table 35 about here

at 3, and the Current System at 4. Like the OA matrix, the RET/DofR/SV (see Table 36) matrix ranked the VA at 1 and Clinic

Insert Table 36 about here

option at 2. However, the Contract option was ranked at 3 and the Current System at 4.

Combined Individual Beneficiary Categories Decision Matricies

The individual beneficiary category option ranks developed in the decision matrices in Tables 34, 35, and 36 were also summed in a weighted decision matrix (see Table 37). The criteria in this matrix

Insert Table 37 about here

were the three populations. The weights were developed using the Combined Armed Services Staff School -- Military Application Program Package. The populations were judged against each other based on the

priority of care established by regulation (Army Regulation 40-3, 1985). The OA population was Favored over the DofAD population and Strongly Favored over the RET/DofR/SV population. The DofAD population was Favored over the RET/DofR/SV population. These judgements yielded weights of 5.2 for the OA population, 2.3 for the DofAD population, and 1.0 for the RET/DofR/SV population with a consistency ratio of 93.18%. Utilizing this method, the VA was the optimal option and ranked at 1 followed by the Clinic, Current System, and Contract options.

RESULTS

Table 38 displays the option rankings for the weighted combined beneficiary category decision matrix, the individual beneficiary category decision matricies, and the weighted beneficiary category

Insert Table 38 about here

decision matrix. In all five decision matrices the Clinic and VA option sum scores were very close. In the OA and RET/DofR/SV individual beneficiary and combined individual beneficiary categories decision matrices, the VA option received a rank of 1. The Clinic option was ranked at 1 for the combined beneficiary categories and the DofAD individual beneficiary category decision matrices. The Contract and Current System options were ranked at 3 or 4 in all matrices.

The OA individual beneficiary category decision matrix and the combined individual beneficiary categories decision matrix with weighted beneficiary categories both found the VA option to be the best alternative delivery mechanism for the OA population. The VA option was ranked better than the Clinic option in the Freedom of Choice, Simplicity, and Government Cost Criteria. Surprisingly, the Current System option came in at a rank of 3 followed by the Contract

option at a rank of 4. The Contract option's ranking of 4 behind the current system is a result of better scores for the Current System option on the criteria Government Cost, Geographic Convenience, and Freedom of Choice.

The DofAD population individual beneficiary category decision matrix and combined beneficiary categories decision matrix ranked the options the same with the Clinic option at 1, the VA option at 2, the Contract option at 3, and the Current System option at 4. Since under the VA option all care for the DofAD population was received under the Current System, the Clinic option was actually competing with the Current System option on the DofAD decision matrix.

Although the VA and Clinic option were ranked at 1 and 2 for the RET/DofR/SV population in the individual beneficiary category decision matrix, this is a result of the overall Government cost which was a constant on all individual beneficiary category decision matrices. The only option which altered this population's method of receiving care was the contract option which scored better than the Current System. This is more obvious when comparing the options utilizing the separate criteria groups of Government and Customer Satisfaction.

The Government criteria consistently rated the Clinic and VA options at 1 or 2 and the Current System and Contract options at 3 or 4. Because of the heavy weighting on Government criteria these ranks are consistent with the overall ranking in the combined beneficiary categories decision matrix. However, the Contract option was ranked 1 for all individual beneficiary categories and the combined beneficiary category when only considering customer satisfaction.

CONCLUSION

This analysis presented a subjective review of three alternative health care delivery mechanisms for beneficiaries in the Pittsburgh area. Based on this analysis, the military outpatient clinic option is the best overall alternative to the current system. If one places more emphasis on serving the OA population then the VA is the best option. Although the HMO Contract option provides the greatest customer satisfaction, it was ranked third primarily due to its significant cost.

These results are heavily contingent on the validity of numerous assumptions, estimates, and subjective assessments made in the data collection and analysis phases. Fiscal year 1990 CHAMPUS data was used to ensure completeness of the data. This necessitated applying a nation-wide CHAMPUS inflation factor which may not reflect actual inflation in the Pittsburgh area. It was also necessary to assume that there were no other significant changes in CHAMPUS usage and cost from FY 90 to FY 93.

In order to accurately compare CHAMPUS data to population data,

FY 90 data was also used for the population data set. Thus it was

necessary to assume that there was no significant change in

population from FY 90 to FY 93 in either total numbers or beneficiary

category ratios. Additionally, the population data set did not include age or gender data. Since this data was necessary to estimating option costs, a number of assumptions were made to estimate this data.

The OA data set was the least complete and thus required a significant number of assumptions. The OA data for the area of study was estimated using a FGGM HSA wide data set to determine an average cost per Army beneficiary which was applied to the all-service active duty population in the study area. Although this method had some advantages, its ultimate accuracy relies on the assumptions that the Pittsburgh area did not differ significantly in usage patterns and cost then the HSA-wide average and that the per capita demand for health care among services was equal. Numerous assumptions were also made in categorizing the OA payment data into type of service (radiology, pharmacy, and inpatient/outpatient physician fees) and mix of specialty care (obstetrics, internal medicine, and orthopedics).

Another series of assumptions were made regarding the amount and cost of care received from the direct care system. This data was unavailable and had to be estimated from requests for care under the open allotment system.

Assumptions were also made in establishing the three alternatives or options to the current health care system. None of the options were researched for viability in the Pittsburgh area. The study assumed that a Pittsburgh area HMO would be willing to accept military beneficiaries under a USFHP payment methodology. Likewise, it assumed that the VA would agree to the access standards and payment methodologies established for purpose of this analysis. Finally, the clinic option assumes that staffing could be hired and that an existing government facility could be used. Unavailable data also necessitated estimating costs of TDY, non-direct radiology and laboratory costs, and costs of remaining direct care under the clinic option. All three options factor in an assumed third party collection recoupment. The potential for actual recoupment may be significantly different.

The validity and accuracy of these data assumptions and estimates impact significantly on the resulting option ranking for the Government Cost Criterion. For example, since the options varied in the amount of CHAMPUS they would incorporate, the over- or understatement of actual CHAMPUS costs might affect the Government Cost rankings. The potential impact of invalid assumptions and inaccurate estimates is amplified by the heavy weighting given the Government

Cost Criterion. The remaining criteria are principally subjective and are not significantly affected by these data assumptions and estimates. However, in that they are subjective and not data dependent, they introduce their own potential for error.

Quantifying these subjective assessments through the use of assessment tools such as customer surveys would increase the validity of the conclusions but were beyond the scope of this project. Using population data with age and gender breakouts, obtaining OA data which specifies the geographic location and type of care received, capturing true direct care costs, the use of a scoring versus ranking system in option comparison, and utilizing actual Navy and Air Force data would enhance a future study.

Only three alternatives were compared to the current system in this study. There are numerous other combinations that could be explored. For example, the Contract option could be evaluated with only the OA population eligible for enrollment. The clinic could be principally staffed with CHAMPUS

partners willing to accept CHAMPUS reimbursement at reduced rates.

Improvements in the current system are also possible. The \$250 limit on care without approval could be increased. The commander of CEKSF believes this change alone would cut the current problems in half

(Burns, interview, December 10, 1991). Other improvements might include altering USAMEDDAC procedures to minimize trips for care, approving more OA care, and providing housing for patients and their families when care at an MTF is required.

Not all health care requirements were included in this study.

Dental care, industrial hygiene, and occupational health were not analyzed. The FGGM USAMEDDAC currently sends OH teams to the CEKSF twice a year. These teams provide over 175 occupational health visits annually. The cost of this mission includes approximately \$1,500 in TDY cost per trip, the salary costs of two registered nurses, a respiratory therapist, OH technician, and files clerk as well as associated supply costs.

Another factor to include in any future study or implementation is the actual sites of care for the alternatives. The actual location of the VA facilities in the Pittsburgh area may have a significant impact on criteria such as geographic convenience. This is also true of the Clinic option.

Caution must be exercised in using zip code based data to make assumptions regarding preferred geographic locations for health care delivery sites. The zip codes used to break out the CHAMPUS eligible population and the CHAMPUS usage and cost data are based on the

residential zip code of the beneficiary as registered in DEERS. Open allotment beneficiaries are registered by their work zip codes. The OA costs are a mixture of residential and site-of-care zip codes, but are predominately site-of-care zip codes.

Open allotment beneficiaries may seek care close to their residence, work, or both depending on the type of care they need. Dependents and Retirees may seek health care sights close to home or may combine their non-urgent health care visits with trips to the commissary or post exchange. Likewise, some dependent spouses may seek health care near their work and may desire to take dependent children to locations near the child's school or day care center. Some zip code areas may not offer a particular specialty or may have insufficient health care resources.

Implementation of any option as described in this study would require the cooperation of the Army, Navy, and Air Force. Both OA and CHAMPUS monies currently under the control of each individual service would have to be pooled. If the option results in a reduction in direct care, MTFs may have to provide any associated savings to help fund implementation of the option. The inclusion of three HSAs in the study would also require the cooperation of three separate Army USAMEDDACs.

The value of this project is not in the conclusions drawn regarding the best option. Data inadequacies necessitated numerous assumptions and estimates which limit the validity of these conclusions. However, the template developed is a useful tool for further analysis. This methodology provides a rational approach to analyze options for providing health care to geographically remote beneficiaries. Subject to the accuracy of the assumptions and estimates made in this project, improvements in the health care provided to beneficiaries in the Pittsburgh area is possible.

Increased access, quality control, customer satisfaction, and cost savings are obtainable.

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Table 1

<u>Outpatient Procedures Requiring a Non-Availability Statement</u>

Arthroscopy
Breast Mass of Tumor Excision
Cataract Removal
Cystoscopy
Dilation and Curettage
GI Endoscopy
Gynecology Laparoscopy
Hernia Repair
Ligation of Transection os Fallopian Tube(s)
Myringotomy or Tympanostomy
Neuroplasty
Nose Repair (Rhinoplasty and Septoplasty)
Strabismus Repair (Eye Muscle Surgery)
Tonsillectomy or Adenoidectomy

Population by 3 Digit Zip Code, Beneficiary Category, and Branch of Service

Z439 Z444 TOTAL	49 66 12 59			215	210 364	425		345 485	620 794	965 1279	1390 2008 26071				230 369	1681 2502 34539			979 1487 1681 2502
Z260	45 33	78		129	197	326		280	475	755	1081		102	123	225	1384		556	828 1384
Z165	127 56	183		202	240	442		241	440	681	1123		104	144	248	1554		674	880 1554
Z164	47	52		91	135	226		195	388	583	808		39	59	86	929		372	587 959
Z163	56 17	73		299	153	452		297	618	915	1367		128	114	242	1682		780	902 1682
Z162	53	55		86	59	157		150	262	412	569		52	54	106	730		353	377 730
Z161	85 23	108		317	256	573		346	209	953	1526		108	152	260	1894		856	1038 1894
Z160	3.80	110		186	144	330		283	521	804	1134		115	103	218	1462		664	798 1462
Z157	67	71		117	101	218		241	418	629	877		83	73	162	1110		514	596 1110
Z156	105 30	135		271	296	299		554	920	1474	2041		187	191	378	2554		1117	1437 2554
Z155	44	47		88	72	160		187	286	473	633		73	82	158	838		389	838 838
Z154	57 19	9/		153	134	287		274	525	799	1086		159	127	286	1448		643	805 1448
Z153	26 24	110		245	160	405		336	503	839	1244		148	115	263	1617		813	804 1617
Z152 Z153 Z1	453 549	1002		869	770	1468		1018	1477	2495	3963		605	535	1140	6105		2774	3331 6105
Z151	95 157	252		383	462	845			953	1483	2328		259	338	265	3177			1910 3177
Z150 Z151	258 93	351		498	461	959		692	1241	1933	2892		301	298	288	3842	NES	1749	2093 3842
ODEN ALL OTMENT	Army Other	TOTAL	CHAMPUS ELIGIBLE DofAD	Army	Other	TOTAL	RET/DofR/SV	Army	Other	TOTAL	Total CHAMPUS	DIR-Mon-CHAMP	Army	Other	TOTAL	GRAND TOTAL	TOTAL ALL CATERGORIES	Army	Other GRAND TOTAL

Table 3

FY93 Open Alottment Costs by Zip Code

	OA	CLAIMS		OA	CLAIMS
	POP	PAID		POP	PAID
ZIP 150			ZIP 161		
ARMY	258	\$280,239.35	ARMY	85	\$92,326.92
OTHER	93	\$101,016.51	OTHER	23	\$24,982.58
TOTAL	351	\$381,255.86	TOTAL	108	\$117,309.50
ZIP 151			ZIP 162		
ARMY	95	\$103,188.91	ARMY	53	\$57,568.55
OTHER	157	\$170,533.25	OTHER	2	\$2,172.40
TOTAL	252	\$273,722.16	TOTAL	55	\$59,740.95
ZIP 152			ZIP 163		
ARMY	453	\$492,048.17	ARMY	56	\$60,827.15
OTHER	549	\$596,323.28	OTHER	17	\$18,465.38
TOTAL	1002	\$1,088,371.44	TOTAL	73	\$79,292.53
ZIP 153			ZIP 164		
ARMY	84	\$91,240.72	ARMY	47	\$51,051.36
OTHER	26	\$28,241.18	OTHER	5	\$5,431.00
TOTAL	110	\$119,481.89	TOTAL	52	\$56,482.35
ZIP 154			ZIP 165		
ARMY	57	\$61,913.35	ARMY	127	\$137,947.28
OTHER	19	\$20,637.78	OTHER	56	\$60,827.15
TOTAL	76	\$82,551.13	TOTAL	183	\$198,774.43
ZIP 155			ZIP 260		
ARMY	41	\$44,534.16	ARMY	45	\$48,878.96
OTHER	6	\$6,517.19	OTHER	33	\$35,844.57
TOTAL	47	\$51,051.36	TOTAL	78	\$84,723.53
ZIP 156			ZIP 439		
ARMY	105	\$114,050.90	ARMY	49	\$53,223.75
OTHER	30	\$32,585.97	OTHER	12	\$13,034.39
TOTAL	135	\$146,636.87	TOTAL	61	\$66,258.14
ZIP 157			ZIP 444		
ARMY	67	\$72,775.34	ARMY	66	\$71,689.14
OTHER	4	\$4,344.80	OTHER	59	\$64,085.74
TOTAL	71	\$77,120.13	TOTAL	125	\$135,774.88
ZIP 160			ALL ZIPS		
ARMY	80	\$86,895.92	ARMY	1768	\$1,920,399.91
OTHER	30	\$32,585.97	OTHER	1121	\$1,217,629.13
TOTAL	110	\$119,481.89	TOTAL	2889	\$3,138,029.04

Table 4

Categorization of Open Allotment Claims

\$1,382,213.16	Total of all categories		
\$210,401.05	Total of Physician	15.22	Physician % of total
\$28,546.04	Total of Lab & Rad	2.07	Lab & Rad % of total
\$45,135.50	Total of Mental Health	3.27	Mental Health % of total
\$516,449.36	Total of Hospital	37.36	Hospital % of total
\$45,325.64	Total of Pharmacy	3.28	Pharmacy % of total
\$536,355,57	Total of Other	38.80	Other % of total

Table 5

FY93 Open Allotment Claims by Category

		PHARMACY	PHYSICIAN	LAB & RAD	MENTAL	HOSPITAL	OTHER	TOT PAID
		CLAIMS	CLAIMS	CLAIMS	HEALTH	CLAIMS	CLAIMS	CLAIMS
ZIP 150	ARMY	\$9,190	\$42,658	\$5,788	\$9,151	\$104,708	\$108,744	\$280,239
	OTHER	\$3,313	\$15,377	\$2,086	\$3,299	\$37,744	\$39,199	\$101,017
	TOTAL	\$12,502	\$58,035	\$7,874	\$12,450	\$142,452	\$147,943	\$381,256
ZIP 151	ARMY	\$3,384	\$15,707	\$2,131	\$3,370	\$38,555	\$40,042	\$103,189
	OTHER	\$5,592	\$25,959	\$3,522	\$5,569	\$63,718	\$66,174	\$170,533
	TOTAL	\$8,976	\$41,666	\$5,653	\$8,938	\$102,273	\$106,215	\$273,722
ZIP 152	ARMY	\$16,135	\$74,900	\$10,162	\$16,068	\$183,849	\$190,935	\$492,048
	OTHER	\$19,555	\$90,773	\$12,316	\$19,473	\$222,810	\$231,398	\$596,323
	TOTAL		\$165,672	\$22,477	\$35,540	\$406,659	\$422,333	\$1,088,371
ZIP 153	ARMY		\$13,889	\$1,884	\$2,979	\$34,091	\$35,405	\$91,241
	OTHER		\$4,299	\$583	\$922	\$10,552	\$10,959	\$28,241
	TOTAL		\$18,188	\$2,468	\$3,902	\$44,643	\$46,364	\$119,482
ZIP 154	ARMY		\$9,424	\$1,279	\$2,022	\$23,133	\$24,025	\$61,913
	OTHER	\$677	\$3,141	\$426	\$674	\$7,711	\$8,008	\$20,638
	TOTAL		\$12,566	\$1,705	\$2,696	\$30,844	\$32,033	\$82,551
ZIP 155	ARMY	\$1,460	\$6,779	\$920	\$1,454	\$16,640	\$17,281	\$44,534
	OTHER		\$892	\$135	\$213	\$2,435	\$2,529	\$6,517
	TOTAL		\$7,771	\$1,054	\$1,667	\$19,075	\$19,810	\$51,051
ZIP 156	ARMY		\$17,361	\$2,355	\$3,724	\$42,614	\$44,256	\$114,051
	OTHER		\$4,960	\$673	\$1,064	\$12,175	\$12,645	\$32,586
	TOTAL		\$22,321	\$3,028	\$4,788	\$54,789	\$56,901	\$146,637
ZIP 157	ARMY	\$2,386	\$11,078	\$1,503	\$2,376	\$27,192	\$28,240	\$72,775
	OTHER		\$661	06\$	\$142	\$1,623	\$1,686	\$4,345
	TOTAL		\$11,739	\$1,593	\$2,518	\$28,815	\$29,926	\$77,120
ZIP 160	ARMY		\$13,227	\$1,795	\$2,838	\$32,468	\$33,719	\$86,896
	OTHER		\$4,960	\$673	\$1,064	\$12,175	\$12,645	\$32,586
	TOTAL		\$18,188	\$2,468	\$3,902	\$44,643	\$46,364	\$119,482
ZIP 161	ARMY		\$14,054	\$1,907	\$3,015	\$34,497	\$35,827	\$92,327
	OTHER		\$3,803	\$516	\$816	\$9,334	\$9,694	\$24,983
	TOTAL		\$17,857	\$2,423	\$3,831	\$43,831	\$45,521	\$117,309
ZIP 162	ARMY	\$1,888	\$8,763	\$1,189	\$1,880	\$21,510	\$22,339	\$57,569
	OTHER	\$7.1	\$331	\$45	\$71	\$812	\$843	\$2,172
	TOTAL	\$1,959	\$9,094	\$1,234	\$1,951	\$22,322	\$23,182	\$59,741

Table 5 Continued

TOT PAID CLAIMS	\$60,827 \$18,465 \$79,293	\$51,051 \$5,431 \$56,482	\$137,947 \$60,827 \$198,774	\$48,879 \$35,845 \$84,724	\$53,224 \$13,034 \$66,258	\$71,689 \$64,086 \$135,775	\$1,920,400 \$1,217,629 \$3,138,029
OTHER CLAIMS	\$23,603 \$7,165 \$30,769	\$19,810 \$2,107 \$21,917	\$53,529 \$23,603 \$77,133	\$18,967 \$13,909 \$32,876	\$20,653 \$5,058 \$25,711	\$27,818 \$24,868 \$52,686	\$745,194 \$472,490 \$1,217,684
HOSPITAL CLAIMS	\$22,727 \$6,899 \$29,627	\$19,075 \$2,029 \$21,104	\$51,543 \$22,727 \$74,270	\$18,263 \$13,393 \$31,656	\$19,886 \$4,870 \$24,757	\$26,786 \$23,945 \$50,731	\$717,537 \$454,954 \$1,172,491
MENTAL HEALTH	\$1,986 \$603 \$2,589	\$1,667 \$177 \$1,844	\$4,505 \$1,986 \$6,491	\$1,596 \$1,170 \$2,767	\$1,738 \$426 \$2,164	\$2,341 \$2,093 \$4,434	\$62,710 \$39,761 \$102,471
LAB & RAD CLAIMS	\$1,256 \$381 \$1,638	\$1,054 \$112 \$1,166	\$2,849 \$1,256 \$4,105	\$1,009 \$740 \$1,750	\$1,099 \$269 \$1,368	\$1,481 \$1,324 \$2,804	\$39,661 \$25,147 \$64,808
PHYSICIAN CLAIMS	\$9,259 \$2,811 \$12,070	\$7,771 \$827 \$8,598	\$20,998 \$9,259 \$30,258	\$7,440 \$5,456 \$12,897	\$8,102 \$1,984 \$10,086	\$10,913 \$9,755 \$20,668	\$292,324 \$185,348 \$477,672
PHARMACY CLAIMS	\$1,995 \$606 \$2,600	\$1,674 \$178 \$1,852	\$4,524 \$1,995 \$6,518	\$1,603 \$1,175 \$2,778	\$1,745 \$427 \$2,173	\$2,351 \$2,102 \$4,452	\$62,974 \$39,929 \$102,902
	ARMY OTHER TOTAL	ARMY OTHER TOTAL	ARMY OTHER TOTAL	ARMY OTHER TOTAL	ARMY OTHER TOTAL	ARMY OTHER TOTAL	ARMY OTHER TOTAL
	ZIP 163	ZIP 164	ZIP 165	ZIP 260	ZIP 439	ZIP 444	ALL ZIPS

Table 6
FY93 CHAMPUS Outpatient Visits and Costs

Delian		·	NO. OF			GOVERNMENT	NO. OF VISITS			GOVERNMENT COST
DoLAD ARMY 1832 \$54.346 \$3.066 \$147.565 761 \$267.546 \$12.063 \$50.655 OTHER 1546 \$49.921 \$27.68 \$119.302 768 \$25.446 \$41.083 \$50.270 RET/DORR/SV ARMY 1401 \$35.283 \$25.440 \$34.48 \$34.68 \$32.200 \$37.203 \$89.740 OTHER 2111 \$101.795 \$45.683 \$25.69.49 \$40.483 \$39.260 \$27.203 \$89.740 OTHER 2111 \$101.795 \$45.683 \$25.69.89 \$40.4893 \$159 \$37.603 \$40.4453 \$21.202 Total Other 3033 \$117.610 \$28.468 \$28.0869 \$159 \$37.603 \$40.4853 \$21.202 Total Other 3665 \$161.716 \$48.4841 \$376.771 \$174 \$84.346 \$22.08 \$26.098 \$141.390 GRAND TOTAL 8689 \$269.926 \$344.893 \$191 \$34.944 \$48.716 \$341.494 DoLAD ARMY 1336 \$45.255 \$24.66 \$29.869 \$40.893 \$191 \$149.344 \$48.716 \$341.494 DoLAD ARMY 1336 \$45.255 \$24.66 \$16.583 \$26.69 \$30.748 \$48.945 \$32.694 \$49.945 \$30.695 \$49.945 \$30.695 \$49.945 \$30.695 \$49.945 \$30.695 \$49.945 \$30.695 \$49.945 \$30.695 \$49.945 \$30.695 \$49.945 \$30.695 \$49.945 \$30.695 \$49.945 \$30.695 \$49.945 \$30.695 \$49.945 \$30.695 \$49.945 \$30.695 \$49.945 \$30.945 \$49.945 \$30.945 \$49.945 \$30.945 \$49.945 \$30.945 \$49.945 \$30.945 \$49.945 \$30.945 \$49.945 \$30.945 \$49.945 \$4			VISITS	CUST	PATMENTS	COST	VISITS	COST	PATMENTS	COST
OTHER 1545 \$49.921 \$276 \$119.362 768 \$25.446 \$12.83 \$20.318 \$12.370 \$12.37						4	70.	400 700		400.055
Sub Total 3177 \$104 267 \$3.344 \$261 937 1669 \$52,164 \$4.083 \$123,270 \$80,741 \$101 \$83,283 \$256,349 \$46 \$58 \$59,00 \$21 424 \$137,494 \$150 \$35 \$150 \$15										
RETI/DoRI/SV ARMY 1401 \$33.263 \$28.403 \$146.904 646 \$56.900 \$22.109 \$307.740 Sub Total Sub Total 3512 \$166.058 \$90.966 \$40.693 \$1591 \$97.160 \$21.424 \$137.404 \$20.900 \$141.305 \$21.424 \$137.404 \$20.900 \$141.305 \$21.424 \$137.404 \$20.900 \$141.305 \$21.424 \$137.404 \$20.900 \$141.305 \$22.000 \$141.306 \$22.000 \$149.51 \$22.000 \$20.000 \$149.51 \$22.000 \$20.0000 \$20.0000 \$20.000 \$20.000 \$20.000 \$20.000 \$20.0000 \$20.0000 \$20.000 \$20.000										\$02,014 \$122,270
OTHER 2111 \$101.795 \$84.563 \$256.868 946 \$56,900 \$21.424 \$137.464 Total Other 3033 \$147,610 \$29.469 \$290.689 \$426.869 \$426.989 \$250.089 \$141.386 GRAND TOTAL 6889 \$269,326 \$94,310 \$666,630 \$3160 \$149,344 \$22.708 \$220.088 GRAND TOTAL 6889 \$269,326 \$94,310 \$666,630 \$3160 \$149,344 \$48.716 \$341,484 DofAD										
Sub Total										
Total Other 3666 \$151,716 \$32,469 \$200,669 \$426 \$04,980 \$26,099 \$141,360 \$200,009 \$141,360 \$200,009 \$141,360 \$200,000 \$200,000 \$149,344 \$48,716 \$341,494 \$150,000 \$200,000 \$149,344 \$48,716 \$341,494 \$100 \$48,943 \$26,344 \$165,341,494 \$100 \$149,344 \$48,716 \$341,494 \$100 \$101,400 \$40,943 \$2,634 \$160,545 \$213 \$80,974 \$10 \$340,943 \$149,40 \$140,000 \$40,943 \$2,634 \$160,545 \$213 \$80,974 \$10 \$340,943 \$149,40 \$149,40 \$160,400 \$266,893 \$499 \$15,746 \$11,10 \$35,791 \$1,100 \$1,10										
CRAND TOTAL CREAT									\$26,009	
DoFAD	Total Other		3656	\$161,716	\$64,841	\$376,771				•
DoIAD	GRAND TOTAL	L	6689	\$269,326	\$94,310	\$666,630	3160	\$149,344	\$48,716	\$341,494
DoEAD					ZIP 151				ZIP 162	
OTHER 1400 \$48,843 \$2,834 \$150,545 213 \$6,974 \$90 \$14,951 Sub Total 2736 \$29,139 \$5,040 \$226,883 489 \$26,385 \$4,849 \$51,732 RET/DoRR/SV ARMY 1183 \$58,052 \$30,872 \$122,065 438 \$26,385 \$4,849 \$51,732 Sub Total 2655 \$133,391 \$77,460 \$192,131 427 \$19,220 \$5,986 335,598 Sub Total 2655 \$133,391 \$100,352 \$314,216 805 \$34,805 \$10,835 \$87,330 Total Army 2499 \$101,347 \$33,278 \$238,423 724 \$35,168 \$5,986 \$72,871 Total Other 3102 \$124,183 \$80,114 \$342,677 \$640 \$226,193 \$5,986 \$60,649 GRAND TOTAL 6601 \$226,630 \$113,392 \$681,099 \$1364 \$60,361 \$11,946 \$123,121 DOFAD ARMY 2104 \$71,051 \$1,404 \$170,163 \$620 \$16,171 \$728 \$37,153 Sub Total 4517 \$145,351 \$6,410 \$352,800 \$255 \$33,314 \$35,868 \$77,339 RET/DoRR/SV ARMY 1752 \$74,133 \$77,284 \$316,861 \$34,924 \$23,904 \$34,925 OTHER 2199 \$116,757 \$91,999 \$256,896 1288 \$54,645 \$41,611 \$132,132 Total Army 3865 \$146,183 \$78,888 \$362,350 1381 \$50,995 \$24,532 \$119,533 Total Other 4812 \$191,067 \$86,906 \$441,133 1883 \$71,789 \$34,846 \$172,181 GRAND TOTAL 869 \$32,444 \$1,153 \$81,546 \$43,831 \$127,88 \$89,88 \$74,530 GRAND TOTAL 869 \$32,644 \$1,153 \$81,546 \$43,831 \$127,88 \$89,88 \$74,530 GRAND TOTAL 869 \$32,644 \$1,153 \$81,546 \$43,831 \$127,83 \$89,88 \$74,530 GRAND TOTAL \$648 \$36,041 \$16,6593 \$893,384 \$362,445 \$19,565 Sub Total 1443 \$51,471 \$5,922 \$132,054 \$662 \$22,164 \$74 \$32,636 Sub Total 1443 \$51,471 \$5,922 \$132,054 \$662 \$22,164 \$74 \$36,372 Sub Total 1443 \$51,471 \$5,922 \$132,054 \$662 \$22,164 \$74 \$48,907 RET/DoRR/SV ARMY \$48 \$31,568 \$31,568 \$31,568 \$33,895 \$31,568 Sub Total 1443 \$51,471 \$5,922 \$132,054 \$662 \$22,164 \$74 \$36,372 Sub Total 1443 \$51,471	DofAD A	RMY	1336			\$116,338	286	\$8,773	\$1,110	\$20,840
Sub Total 2736 \$32,139 \$5,040 \$266,883 499 \$15,746 \$11,110 \$35,791 \$20,000 \$10,000 \$10,000 \$12,000							213			\$14,951
OTHER 1702 \$75,339 \$77,480 \$192,131 \$427 \$18,220 \$5,986 \$35,598 \$35,598 \$133,381 \$108,352 \$314,216 \$865 \$44,805 \$10,835 \$87,330 \$108,352 \$314,216 \$865 \$44,805 \$10,835 \$87,360 \$72,671 \$7041 Other \$102 \$124,183 \$80,114 \$342,677 \$640 \$25,193 \$5,986 \$60,649 \$60,840 \$12,483 \$80,114 \$342,677 \$640 \$25,193 \$5,986 \$60,649 \$60,840 \$12,483 \$80,114 \$342,677 \$640 \$25,193 \$5,986 \$60,649 \$60,840 \$12,412 \$74,000 \$113,392 \$681,099 \$1364 \$60,361 \$11,946 \$123,121 \$124 \$123,121 \$124 \$124 \$13,392 \$143,341 \$13,392 \$160,805 \$162,437 \$165 \$17,143 \$2,940 \$40,166 \$162,437 \$165 \$17,143 \$2,940 \$40,166 \$162,437 \$165 \$17,143 \$2,940 \$40,166 \$162,437 \$165 \$17,143 \$2,940 \$40,166 \$162,437 \$165 \$17,143 \$2,940 \$40,166 \$162,437 \$165 \$17,143 \$2,940 \$40,166 \$162,437 \$165 \$17,143 \$2,940 \$40,166 \$162,437 \$165 \$17,143 \$2,940 \$40,166 \$162,437 \$165 \$17,143 \$2,940 \$40,166 \$162,437 \$162,437 \$162,437 \$163,438 \$163,465 \$16			2736							
Sub Total Army										
Total Army 7 2499 \$101;347 \$33,278 \$238,423 724 \$35,168 \$5,960 \$72,671 Total Other 7 3102 \$124,183 \$80,114 \$342,677 640 \$25,193 \$5,986 \$50,549 \$60,549 \$104,185 \$113,392 \$681,099 \$1364 \$60,355 \$11,946 \$123,121 \$124,183 \$113,392 \$681,099 \$1364 \$60,355 \$11,946 \$123,121 \$124,185 \$140,40 \$170,163 \$620 \$16,171 \$728 \$37,153 \$140,40 \$170,163 \$620 \$16,171 \$728 \$37,153 \$140,40 \$170,163 \$124,37 \$165 \$171,43 \$72,940 \$40,196 \$104,747 \$145,351 \$60,00 \$122,437 \$615 \$171,43 \$2,940 \$40,196 \$104,747 \$145,351 \$60,00 \$122,437 \$615 \$171,43 \$2,940 \$40,196 \$104,747 \$145,351 \$140,40 \$160,477,399 \$160,773,39 \$16	-									
Total Other GRAND TOTAL S102 \$124,183 \$80,114 \$342,677 \$40 \$25,193 \$56,986 \$56,549 \$113,392 \$581,099 \$1364 \$50,361 \$11,946 \$123,121 \$113,392 \$581,099 \$1364 \$50,361 \$11,946 \$123,121 \$113,392 \$136,099 \$136,471 \$113,494 \$1123,121 \$113,392 \$136,099 \$16,171 \$728 \$37,153 \$11,946 \$173,153 \$11,946 \$173,153 \$11,946 \$173,153 \$11,946 \$173,153 \$11,946 \$174,130 \$130,000 \$192,437 \$615 \$17,143 \$2,940 \$40,186 \$100,000 \$100,000 \$125 \$33,314 \$3,566 \$77,393 \$144,333 \$77,294 \$192,197 \$761 \$344,824 \$23,804 \$92,390 \$16,775 \$134,824 \$23,804 \$92,390 \$16,775 \$134,824 \$23,804 \$92,390 \$16,775 \$134,824 \$23,804 \$92,390 \$16,775 \$134,824 \$23,804 \$92,390 \$16,775 \$134,824 \$23,804 \$92,390 \$16,775 \$134,824 \$23,804 \$92,390 \$16,775 \$134,824 \$23,804 \$92,390 \$16,775 \$16,757 \$18,899 \$258,686 \$1288 \$54,645 \$41,611 \$132,132 \$100,000 \$190,900 \$159,183 \$450,893 \$2029 \$199,489 \$65,415 \$214,512 \$100,000 \$16,183 \$78,688 \$362,360 \$1381 \$50,995 \$24,532 \$119,533 \$10,000 \$190		Sub Total								
CRAND TOTAL				•						
DoFAD ARMY 2104 \$71,051 \$1,404 \$170,183 620 \$16,171 \$728 \$37,153 \$20,007 \$45,006 \$182,437 \$615 \$17,143 \$2,940 \$40,186 \$20,007 \$20,007 \$45,007 \$4	*									
DoFAD	GRAND TOTAL	L	0001	\$220,030	\$110,382	400 I,USS	1304	400,501	\$11,04U	\$125,121
OTHER 2413 \$74,300 \$5,006 \$192,437 815 \$17,143 \$2,940 \$40,186 \$20,007 \$235 \$33,314 \$3,668 \$77,339 \$77,339 \$77,284 \$192,197 761 \$34,924 \$23,904 \$92,390 OTHER 2199 \$116,757 \$91,999 \$259,696 1268 \$54,645 \$41,611 \$132,132 \$35,141 \$3,668 \$146,183 \$78,688 \$32,369 \$2029 \$99,469 \$65,415 \$214,512 \$36,140 \$365 \$146,183 \$78,688 \$362,360 \$320,99 \$99,469 \$65,415 \$214,512 \$145,133 \$10,890 \$159,183 \$450,983 \$2029 \$99,469 \$65,415 \$214,512 \$145,133 \$10,100 \$136 \$136 \$136 \$136 \$136 \$136 \$136 \$136										
Sub Total 4517 \$145,351 \$6,410 \$352,600 1235 \$33,314 \$3,668 \$77,339 \$77,294 \$192,197 761 \$34,924 \$23,904 \$92,390 OTHER 2199 \$116,757 \$81,899 \$256,896 1268 \$54,645 \$41,611 \$132,132 \$30 \$30 \$190,890 \$169,183 \$450,983 2029 \$89,489 \$65,415 \$214,512 \$100,400 \$161,833 \$79,688 \$362,350 \$1381 \$50,995 \$24,532 \$119,633 \$101,000 \$169,183 \$190,890 \$441,133 \$183 \$71,789 \$44,561 \$172,318 \$101,000 \$161,00										
RET/DofR/SV ARMY 1752 \$74,133 \$77,284 \$192,187 761 \$34,824 \$23,804 \$82,380 OTHER 2199 \$116,757 \$81,899 \$256,896 1268 \$34,645 \$41,511 \$12,132 \$145,193 \$169,890 \$159,183 \$450,963 2029 \$99,469 \$65,415 \$214,512 \$145,113 \$10,101 \$10,10	0									
OTHER	DET/D-M/CV/ A									
Sub Total 3951										
Total Army										
Total Other GRAND TOTAL 8612 \$191,067 \$86,905 \$441,133 1883 \$71,789 \$44,561 \$172,318 \$468 \$336,241 \$165,693 \$803,483 3264 \$122,783 \$69,083 \$291,860 \$22,634 \$122,783 \$69,083 \$291,860 \$22,634 \$122,783 \$69,083 \$291,860 \$22,634 \$122,783 \$69,083 \$291,860 \$22,634 \$122,783 \$69,083 \$291,860 \$22,634 \$122,783 \$69,083 \$291,860 \$22,634 \$143 \$11,678 \$74 \$26,372 \$144 \$1,153 \$61,548 \$30,550 \$319 \$11,678 \$74 \$26,372 \$144 \$1,443 \$1,471 \$5,922 \$132,054 \$62 \$22,184 \$74 \$49,007 \$1443 \$1443 \$14,471 \$5,922 \$132,054 \$62 \$22,184 \$74 \$49,007 \$1443 \$1443 \$14,471 \$5,922 \$132,054 \$62 \$22,184 \$74 \$49,007 \$1443 \$1443 \$14,471 \$5,922 \$132,054 \$62 \$22,184 \$74 \$49,007 \$1443 \$1443 \$14,471 \$1443 \$14,471 \$1443 \$14,471 \$1443 \$14,471 \$1443 \$14,471 \$1443 \$14,471 \$1443 \$14,471 \$1443 \$14,471 \$1443 \$14,471 \$1444 \$14,471 \$										
DoFAD ARMY 869 \$32,144 \$1,153 \$81,548 343 \$10,506 \$0 \$22,634			4612		\$86,905	\$441,133				
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Total Other 1320 \$65,949 \$13,379 \$157,682 1326 \$54,641 \$13,527 \$104,140		Sub Total			\$36,907				\$29,334	
GRAND TOTAL 2642 \$111,630 \$37,267 \$272,864 2466 \$89,460 \$29,938 \$181,772										
	GRAND TOTA	L	2642	\$111,630	\$37,207	\$272,004	2405	3 89,400	\$29,936	\$181,77Z

		NO. OF VISITS		3RD PARTY PAYMENTS	GOVERNMENT COST	NO. OF VISITS		3RD PARTY PAYMENTS	GOVERNMENT COST
				ZIP 155				ZIP 260	
DofAD	ARMY OTHER Sub Total	218 195 413	\$7,098 \$6,093 \$13,192	\$43 \$59 \$102	\$16,509 \$13,460 \$29,969	524 743 1267	\$16,730 \$23,905 \$40,636	\$962 \$94 \$1,057	\$36,317 \$62,155 \$99,473
RET/DofR/SV		295 963 1258	\$18,746 \$28,427 \$47,174	\$4,558 \$12,413 \$16,971	\$44,744 \$67,214 \$111,958	462 964 1426	\$20,740 \$44,091 \$64,831	\$9,125 \$29,462 \$38,587	\$48,491 \$178,075 \$226,566
Total Army Total Other GRAND TO	ΓAL	513 1158 1671	\$25,845 \$34,521 \$60,365	\$4,601 \$12,472 \$17,073	\$61,253 \$80,674 \$141,927	986 1707 2693	\$37,470 \$67,997 \$105,467	\$10,088 \$29,556 \$39,644	\$84,808 \$240,230 \$325,039
				ZIP 156				ZIP 439	
DofAD	ARMY OTHER	946 1116	\$26,354 \$29,571	\$1,014 \$370	\$75,177 \$89,169	960 695	\$30,551 \$25,730	\$884 \$558	\$85,219 \$53,653
RET/DofR/SV		2062 1041	\$55,924 \$48,871	\$1,384 \$8,572	\$164,347 \$105,837 \$193,949	1655 690 1177	\$56,280 \$32,410 \$54,415	\$1,442 \$9,600 \$35,446	\$138,872 \$74,321 \$133.010
Total Army	OTHER Sub Total	1905 2946 1987	\$83,471 \$132,342 \$75,224	\$33,865 \$42,437 \$9,586	\$299,786 \$181,015	1867 1650	\$86,825 \$62,960	\$45,046 \$10,484	\$207,331 \$159,540
Total Other GRAND TO	TAL	3021 5008	\$113,042 \$188,266	\$34,236 \$43,821	\$283,118 \$464,133	1872 3522	\$80,145 \$143,105	\$36,004 \$46,488	\$186,663 \$346,203
				ZIP 167				ZIP 444	
DofAD	ARMY OTHER Sub Total	454 363 817	\$15,234 \$9,096 \$24,329	\$1,242 \$238 \$1,479	\$40,646 \$18,351 \$58,997	1205 1636 2841	\$43,410 \$52,233 \$95,644	\$1,175 \$510 \$605,18	\$103,954 \$117,690 \$221,644
RET/DofR/SV		490 784 1274	\$27,648 \$46,231 \$73,879	\$4,379 \$12,746 \$17,125	\$69,837 \$110,196 \$180,034	1143 1631 2774	\$40,432 \$72,834 \$113,266	\$33,050 \$72,325 \$105,375	\$85,273 \$155,568 \$240,840
Total Army Total Other GRAND TO		944 1147 2091	\$42,882 \$66,326 \$98,208	\$5,620 \$12,984 \$18,604	\$110,483 \$128,647 \$239,030	2348 3267 5615	\$83,843 \$125,067 \$208,910	\$34,225 \$72,835 \$107,060	\$189,227 \$273,257 \$462,484
GRAND TO	IAL	2051	450,200	\$10,004	4203,000	0010	4200,010	•	V-10-1,10-1
			444.050	ZIP 160	\$05.000	12060	# <i>46</i> 9 977	ALL ZIPS \$18.622	\$1,129,003
DofAD	ARMY OTHER Sub Total	459 588 1047	\$11,653 \$17,731 \$29,384	\$131 \$441 \$573	\$25,090 \$40,999 \$66,089	13958 14074 28032	\$452,277 \$442,689 \$894,966	\$19,703 \$38,326	\$1,095,103 \$2,224,105
RET/DofR/SV	ARMY OTHER	534 1123	\$58,934 \$63,900	\$14,607 \$32,885	\$42,453 \$133,864	13053 20129 33162	\$636,263 \$979,816 \$1,616,099	\$343,059 \$576,733 \$919,791	\$1,359,873 \$2,342,265 \$3,702,138
Total Army Total Other	Sub Total	1657 993 1 711	\$122,834 \$70,587 \$81,631	\$47,492 \$14,739 \$33,326	\$176,317 \$67,544 \$174,863	27011 34203	\$1,088,561 \$1,422,505	\$361,681 \$596,436	\$2,488,876 \$3,437,367
GRAND TO	TAL	2704	\$152,218	\$48,066	\$242,407	61214	\$2,611,066	\$958,117	\$5,926,243

Table 7

FY93 CHAMPUS Hospital Admissions, Bed Days, and Costs

						001
		ADMIS-	BED			GOVERNMENT
		SIONS	DAYS	COST	PAYMENTS	COST
				7ID 460		
D-64D	ADM/	404	456	ZIP 150 \$4,506	\$0	\$236,452
DofAD	ARMY	104 81	347	\$5,553	\$2,847	\$233,607
	OTHER Sub Total	185	803	\$10,059	\$2,847	\$470,059
RET/DofR/SV	ARMY	59	395	\$98,706	\$5,702	\$147,957
KE I/DOIR/SV	OTHER	75	555	\$136,628	\$137,415	\$152,397
	Sub Total	134	950	\$235,334	\$143,117	\$300,354
Total Army	Sub Total	163	851	\$103,212	\$5,702	\$384,409
Total Other		156	902	\$142,181	\$140,262	\$386,004
GRAND TOTAL		319	1753	\$245,393	\$145,964	\$770,412
GRAND IOIAI	-	313	1733	4243,333	φ140,004	Ψ110, 1 12
				ZIP 151		
DofAD	ARMY	71	392	\$4,858	\$2,561	\$206,458
D0171D	OTHER	56	308	\$5,964	\$4,529	\$238,366
	Sub Total	127	700	\$10,822	\$7,090	\$444,824
RET/DofR/SV	ARMY	41	336	\$68,648	\$29,727	\$129,072
	OTHER	57	437	\$107,438	\$100,332	\$176,759
	Sub Total	98	773	\$176,086	\$130,059	\$305,830
Total Army		112	728	\$73,506	\$32,288	\$335,530
Total Other		113	745	\$113,402	\$104,861	\$415,124
GRAND TOTAL	L	225	1473	\$186,909	\$137,149	\$750,654
				ZIP 152		
DofAD	ARMY	117	665	\$18,880	\$8,707	\$470,010
	OTHER	72	557	\$5,770	\$2,292	\$309,652
	Sub Total	189	1222	\$24,650	\$10,998	\$779,661
RET/DofR/SV	ARMY	85	667	\$130,597	\$49,257	\$276,508
	OTHER	72	734	\$205,310	\$137,785	\$191,448
	Sub Total	157	1401	\$335,907	\$187,042	\$467,957
Total Army		202	1332	\$149,477	\$57,964	\$746,518
Total Other	_	144	1291	\$211,080	\$140,077	\$501,100
GRAND TOTA	L	346	2623	\$360,557	\$198,041	\$1,247,618
				ZIP 153		
DofAD	ARMY	59	289	\$2,815	\$264	\$168,455
טאוטט	OTHER	19	75	\$931	\$0	\$74,757
	Sub Total	78	364	\$3,746	•	\$243,212
RET/DofR/SV	ARMY	26	125	\$27,455	\$9,092	\$53,741
IL DONGO	OTHER	17	142	\$33,289	\$0	\$65,487
	Sub Total	43	267	\$60,744		\$119,228
Total Army		85	414	\$30,270		\$222,196
Total Other		36	217	\$34,220	•	\$140,244
GRAND TOTA	L	121	631	\$64,490		\$362,440
J.3.112 1017	-		20.1	T 7,	+-,	

Table 7 Continued

		ADMIS- SIONS	BED DAYS		3RD PARTY PAYMENTS	GOVERNMENT COST
				ZIP 154	4.4	
DofAD	ARMY	22	91	\$935	\$0	\$50,008
	OTHER	10	40	\$2,003	\$0	\$30,278
	Sub Total	32	0	\$2,938	\$0	\$80,286
RET/DofR/SV	ARMY	23	191	\$66,549	\$10,074	\$88,056
	OTHER	26	292	\$70,047	\$42,388	\$276,479
	Sub Total	49	483	\$136,596	\$52,462	\$364,535
Total Army		45	191	\$67,484	\$10,074	\$138,064
Total Other		36	292	\$72,049	\$42,388	\$306,757
GRAND TOTAL		81	483	\$139,534	\$52,462	\$444,821
				71D 455		
		40		ZIP 155	# C04	\$30,610
DofAD	ARMY	19	53	\$546	\$694	
	OTHER	17	93	\$919	\$0 ¢co4	\$88,639
	Sub Total	36	146	\$1,465	\$694	\$119,249
RET/DofR/SV	ARMY	17	141	\$32,302	\$7,814	\$71,164
	OTHER	13	195	\$13,138	\$2,702	\$30,395 \$404.550
	Sub Total	30	336	\$45,440	\$10,517	\$101,559
Total Army		36	194	\$32,849	\$8,509	\$101,774
Total Other		30	288	\$14,057	\$2,702	\$119,034
GRAND TOTAL	L	66	482	\$46,905	\$11,211	\$220,809
				ZIP 156		
DofAD	ARMY	53	312	\$2,881	\$1,063	\$138,686
	OTHER	39	221	\$2,566	\$1,815	\$112,118
	Sub Total	92	533	\$5,447	\$2,879	\$250,804
RET/DofR/SV	ARMY	46	309	\$88,823	\$17,664	\$146,807
	OTHER	62	551	\$153,264	\$61,254	\$179,601
	Sub Total	108	860	\$242,087	\$78,919	\$326,408
Total Army		99	621	\$91,704	\$18,728	\$285,493
Total Other		101	772	\$155,830	\$63,070	\$291,719
GRAND TOTA	L	200	1393	\$247,534	\$81,797	\$577,212
				ZIP 157		
D=60D	ADMV	33	150	\$1,373	\$3,298	\$83,040
DofAD	ARMY OTHER	20	121	\$3,342	\$0,290	\$85,882
			271	\$4,715	\$3,298	\$168,922
DET ID-ID IOU	Sub Total		274	\$28,741	\$8,307	\$101,978
RET/DofR/SV	ARMY	20			\$31,451	\$76,691
	OTHER Sub Total	24 44	131 405	\$25,021 \$53,762	\$39,758	\$178,668
Total A	OUD TOTAL			\$30,114	\$11,605	\$185,018
Total Army		53	424	•	•	\$162,573
Total Other		44	252	\$28,363	\$31,451	•
GRAND TOTA	L	97	676	\$58,476	\$43,056	\$347,591

Table 7 Continued

		ADMIS-	BED	PATIENT	3RD PARTY	GOVERNMENT
		SIONS	DAYS		PAYMENTS	COST
				ZIP 160	40	ቀ ደብ በ77
DofAD	ARMY	15	52	\$553	\$0	\$52,077
	OTHER	26	141	\$1,804	\$0	\$92,104
	Sub Total	41	193	\$2,357	\$0	\$144,180
RET/DofR/SV	ARMY	10	55	\$12,954	\$1,890	\$26,313
	OTHER	41	277	\$78,329	\$37,907	\$139,611
	Sub Total	51	332	\$91,283	\$39,797	\$165,924
Total Army		25	107	\$13,507	\$1,890	\$78,390
Total Other		67	418	\$80,133	\$37,907	\$231,715
GRAND TOTAL	•	92	525	\$93,640	\$39,797	\$310,105
				ZIP 161		
DofAD	ARMY	41	146	\$1,214	\$0	\$60,408
20	OTHER	24	204	\$1,997	\$0	\$85,257
	Sub Total	65	350	\$3,211	\$0	\$145,665
RET/DofR/SV	ARMY	32	196	\$32,106	\$9,485	\$74,035
112172011501	OTHER	39	258	\$42,479	\$24,461	\$102,268
	Sub Total	71	454	\$74,585	\$33,946	\$176,303
Total Army		73	342	\$33,321	\$9,485	\$134,443
Total Other		63	462	\$44,476	\$24,461	\$187,525
GRAND TOTAL		136	804	\$77,796	\$33,946	\$321,968
				ZIP 162	4	400.010
DofAD	ARMY	20	121	\$895	\$2,123	\$92,312
	OTHER	11	111	\$1,072	\$0	\$66,402
	Sub Total	31	232	\$1,966	\$2,123	\$158,713
RET/DofR/SV	ARMY	16	112	\$15,524	\$0	\$30,368
	OTHER	21	137	\$36,570	\$9,983	\$50,431
	Sub Total	37	249	\$52,094	\$9,983	\$80,799
Total Army		36	233	\$16,418	\$2,123	\$122,679
Total Other		32	248	\$37,642		\$116,833
GRAND TOTAL	-	68	481	\$54,061	\$12,107	\$239,512
				ZIP 163		
DofAD	ARMY	36	272	\$2,115	\$0	\$129,626
	OTHER	42	164	\$1,853	\$0	\$128,696
	Sub Total	78	436	\$3,968	\$0	\$258,322
RET/DofR/SV	ARMY	38	277	\$49,997		\$140,916
	OTHER	54	317	\$90,271	\$41,249	\$103,355
	Sub Total	92	594	\$140,268	\$61,950	\$244,272
Total Army		74	549	\$52,113	\$20,701	\$270,542
Total Other		96	481	\$92,123	\$41,249	\$232,051
GRAND TOTAL	L	170	1030	\$144,236	\$61,950	\$502,593

Table 7 Continued

		ADMIS- SIONS	BED DAYS		3RD PARTY PAYMENTS	GOVERNMENT COST
				ZIP 164		
DofAD	ARMY	22	96	\$623	\$8,404	\$39,460
DUIAD	OTHER	12	38	\$599	\$1,836	\$24,009
	Sub Total	34	134	\$1,222	\$10,240	\$63,469
RET/DofR/SV	ARMY	9	52	\$27,435	\$8,531	\$18,472
AL INDONOGO	OTHER	10	52	\$12,312	\$2,277	\$16,757
	Sub Total	19	104	\$39,748	\$10,808	\$35,229
Total Army		31	148	\$28,058	\$16,934	\$57,932
Total Other		22	90	\$12,911	\$4,114	\$40,766
GRAND TOTA	E	53	238	\$40,970	\$21,048	\$98,698
				ZIP 165		
DofAD	ARMY	58	181	\$1,372	\$0	\$86,147
	OTHER	35	93	\$1,031	\$99	\$66,605
	Sub Total	93	274	\$2,403	\$99	\$152,753
RET/DofR/SV	ARMY	15	162	\$39,238	\$6,552	\$89,087
	OTHER	24	561	\$79,312	\$11,930	\$424,785
	Sub Total	39	723	\$118,549	\$18,482	\$513,872
Total Army		73	343	\$40,610	\$6,552	\$175,235
Total Other		59	654	\$80,343	\$12,029	\$491,390
GRAND TOTA	Ľ	132	997	\$120,953	\$18,581	\$666,625
				ZIP 260		
DofAD	ARMY	33	126	\$1,266	\$0	\$65,970
	OTHER	46	144	\$1,549	\$84	\$106,180
	Sub Total	79	270	\$2,815	\$84	\$172,150
RET/DofR/SV	ARMY	24	122	\$17,780	\$17,281	\$67,336
	OTHER	58	483	\$123,269	\$68,299	\$123,155
	Sub Total	82	605	\$141,049	\$85,580	\$190,490
Total Army		57	248	\$19,046	\$17,281	\$133,306
Total Other		104	627	\$124,818	\$68,383	\$229,335
GRAND TOTA	L	161	875	\$143,864	\$85,665	\$362,640
				ZIP 439		
DofAD	ARMY	60	191	\$1,939	\$708	\$145,482
	OTHER	52	151	\$1,488	\$367	\$98,974
	Sub Total	112	342	\$3,427	\$1,075	\$244,457
RET/DofR/SV	ARMY	20	187	\$50,208	\$9,634	\$35,188
	OTHER	53	405	\$67,410	\$36,519	\$133,669
	Sub Total	73	592	\$117,618	\$46,153	\$168,857
Total Army		80	378	\$52,147	\$10,343	\$180,670
Total Other		105	556	\$68,898	\$36,886	\$232,644
GRAND TOTA	L	185	934	\$121,045	\$47,228	\$413,313

Table 7 Continued

		ADMIS- SIONS	BED DAYS		3RD PARTY PAYMENTS	GOVERNMENT COST
				ZIP 444		
DofAD	ARMY	82	378	\$11,237	\$2,765	\$202,511
	OTHER	100	382	\$5,744	\$7,564	\$220,361
	Sub Total	182	760	\$16,981	\$10,328	\$422,872
RET/DofR/SV	ARMY	33	252	\$42,216	\$45,703	\$63,981
	OTHER	64	461	\$68,389	\$92,973	\$102,854
	Sub Total	97	713	\$110,605	\$138,676	\$166,834
Total Army		115	630	\$53,453	\$48,468	\$266,492
Total Other		164	843	\$74,133	\$100,537	\$323,214
GRAND TOTAL		279	1473	\$127,586	\$149,005	\$589,706
				ALL ZIPS		
DofAD	ARMY	845	3880	\$58,008	\$30,587	\$2,257,712
	OTHER	662	3150	\$44,186	\$21,432	\$2,061,887
	Sub Total	1507	7030	\$102,193	\$52,019	\$4,319,599
RET/DofR/SV	ARMY	514	3853	\$829,281	\$257,416	\$1,560,979
	OTHER	710	5988	\$1,342,474	\$838,926	\$2,346,141
	Sub Total	1224	9841	\$2,171,755	\$1,096,342	\$3,907,120
Total Army		1359	7733	\$887,289	\$288,003	\$3,818,690
Total Other		1372	9138	\$1,386,660	\$860,358	\$4,408,028
GRAND TOTAL		2731	16871	\$2,273,948	\$1,148,361	\$8,226,718

Table 8

FY93 CHAMPUS Inpatient Professional Services and Cost

		NO. OF	PATIENT	3RD PARTY	GVRNMNT	NO. OF		3RD PARTY	GVRNMNT
		SVCS	COST	PAYMENTS	COST	SVCS	COST	PAYMENTS	COST
				150				161	
DofAD	ARMY	626	\$2,538	\$385	\$84,628	256	\$805	\$109	\$29,196 \$40,806
	OTHER Sub Total	551 1177	\$4,467 \$7,005	\$1,941 \$2,326	\$111,906 \$196,533	209 465	\$337 \$1,142	\$103 \$212	\$70,002
RET/DofR/SV	ARMY	666	\$23,660	\$11,807	\$63,321	358	\$11,260	\$12,375	\$29,174
	OTHER	1070	\$32,588	\$26,107	\$85,343 \$148,663	445 803	\$16,860 \$28,120	\$19,920 \$32,295	\$42,716 \$71,890
Total Army	Sub Total	1736 1292	\$56,248 \$26,198	\$37,914 \$12,191	\$140,003 \$147,948	614	\$12,065	\$12,484	\$58,371
Total Other		1621	\$37,055	\$28,049	\$197,248	654	\$17,197	\$20,023	\$83,522
GRAND TOTAL	•	2913	\$63,264	\$40,240	\$345,197	1268	\$29,262	\$32,507	\$141,892
				151				162	
DofAD	ARMY	537	\$1,398	\$1,329	\$65,602 \$69,414	182 157	\$1,691 \$3.075	\$0 \$2.049	\$25,843 \$20.889
	OTHER Sub Total	565 1102	\$9,313 \$9,711	\$2,512 \$3,841	\$155,016	339	\$4,765	\$2,049	\$46,732
RET/DofR/SV	ARMY	666	\$23,660	\$11,807	\$63,321	85	\$5,472	\$4,140	\$0
	OTHER	562	\$24,447	\$14,277	\$58,731	278	\$7,752	\$2,907 \$7.048	\$20,509 \$20,509
Total Army	Sub Total	1228 1203	\$48,108 \$25,058	\$26,083 \$13,136	\$122,052 \$128,923	363 267	\$13,224 \$7,163	\$4,140	\$25,843
Total Other		1127	\$32,760	\$16,788	\$148,145	435	\$10,827	\$4,957	\$41,398
GRAND TOTAL	-	2330	\$57,818	\$29,924	\$277,068	702	\$17,990	\$9,097	\$67,241
				152				163	
DofAD	ARMY	829	\$7,750	\$5,381	\$131,085	267	\$1,083	\$0	\$45,933
	OTHER	791	\$8,816	\$427	\$134,317	390	\$2,558	\$387	\$47,639
meran man	Sub Total	1620	\$16,566	\$5,808	\$265,401 \$83.986	657 368	\$3,641 \$16,360	\$387 \$8,418	\$93,573 \$44,773
RET/DofR/SV	ARMY OTHER	408 976	\$13,041 \$24,604	\$15,777 \$30,729	\$71,058	755	\$28,836	\$17,706	\$66,834
	Sub Total	1384	\$37,645	\$46,506	\$155,044	1123	\$45,216	\$26,124	\$111,606
Total Army		1237	\$20,790	\$21,168	\$215,071	635	\$17,463	\$8,418	\$90,706
Total Other		1767	\$33,420	\$31,168	\$205,375	1145	\$31,394	\$18,092	\$114,473
GRAND TOTAL	L	3004	\$64,211	\$52,314	\$420,445	1780	\$48,867	\$26,511	\$205,179
				163				164	410.000
DofAD	ARMY	411	\$3,323	\$0	\$47,776	112	\$259 \$1,754	\$0 \$0	\$19,822 \$21.037
	OTHER Sub Total	160 571	\$1,611 \$4,934	\$137 \$137	\$35,921 \$83,698	119 231	\$2.014	\$0 \$0	\$40.859
RET/DofR/SV	ARMY	209	\$8,094	\$6,365	\$21,696	114	\$4,540	\$8,072	\$15,354
, E // B o ii v O v	OTHER	541	\$12,581	\$8,413	\$75,520	121	\$8,300	\$11,493	\$18,282
	Sub Total	750	\$20,674	\$14,777	\$97,216	235	\$12,839	\$19,565	\$33,636
Total Army		620	\$11,417	\$6,365	\$69,472	226	\$4,799	\$8,072	\$35,176
Total Other		701	\$14,191	\$8,549	\$111,441	240	\$10,054	\$11,493	\$39,318
GRAND TOTAL	L	1321	\$25,608	\$14,914	\$180,913	466	\$14,863	\$19,565	\$74,495

		NO. OF SVCS	PATIENT COST	3RD PARTY PAYMENTS	GVRNMNT COST	NO. OF SVCS	PATIENT COST		GVRNMNT COST
				154				165	
DofAD	ARMY OTHER	152 167	\$752 \$10	\$0 \$0	\$22,543 \$19,759	319 182	\$3,637 \$1,233	\$0 \$0 \$0	\$36,550 \$39,004
RET/DofR/SV	Sub Total ARMY OTHER	319 421 401	\$762 \$13,919 \$13,464	\$0 \$5,031 \$2,120	\$42,302 \$45,490 \$35,932	501 101 316	\$4,870 \$6,727 \$11,139 \$17,866	\$16,768 \$3,564 \$20,332	\$75,554 \$14,507 \$20,370 \$34,878
Total Army Total Other GRAND TOTAL	Sub Total	822 573 568 1141	\$27,383 \$14,671 \$13,474 \$28,145	\$7,151 \$6,031 \$2,120 \$7,161	\$81,422 \$68,033 \$56,692 \$123,724	417 420 498 918	\$10,365 \$12,372 \$22,736	\$16,768 \$3,664 \$20,332	\$51,057 \$69,374 \$110,431
				166				260	
DofAD	ARMY OTHER	119 136	\$1,415 \$632	\$1,032 \$0	\$15,653 \$20,711	251 482	\$932 \$2,414	\$0 \$306	\$33,300 \$56,102
RET/DofR/SV	Sub Total ARMY	255 271	\$2,046 \$8,391	\$1,032 \$4,167	\$36,364 \$37,209	733 244	\$3,346 \$8,572	\$306 \$4,338	\$89,402 \$25,585
	OTHER Sub Total	105 376	\$6,826 \$15,217	\$3,992 \$8,158	\$17,314 \$54,523	622 1066	\$26,821 \$35,393	\$9,599 \$13,937	\$68,749 \$94,334
Total Army Total Other		390 241	\$9,806 \$7,458	\$5,198 \$3,992	\$62,862 \$38,025	495 1304	\$9,504 \$29,236	\$4,338 \$9,905	\$58,885 \$124,850
GRAND TOTAL		631	\$17,264	\$9,190	\$90,887	1799	\$38,739	\$14,243	\$183,735
				156				439	
DofAD	ARMY	434	\$1,133	\$1,316	\$56,755	396	\$4,873	\$1,470	\$51,466
	OTHER	474	\$3,014	\$371	\$56,613	343	\$2,515 \$7,389	\$1,194 \$2,864	\$52,640 \$104,106
RET/DofR/SV	Sub Total ARMY	908 338	\$4,148 \$20,610	\$1,686 \$9,505	\$113,368 \$61,682	739 340	\$7,207	\$7,831	\$24,747
	OTHER	685	\$23,788	\$24,593	\$56,599	758	\$23,747	\$8,521	\$64,327
Total Army	Sub Total	1023 772	\$44,398 \$21,743	\$34,097 \$10,821	\$118,281 \$118,437	1098 736	\$30,953 \$12,080	\$16,352 \$9,301	\$69,074 \$76,213
Total Other		1159	\$26,803	\$24,963	\$113,212	1101	\$26,262	\$9,716	\$116,967
GRAND TOTAL	•	1931	\$48,546	\$35,784	\$231,649	1837	\$38,342	\$19,016	\$193,180
				157				444	
DofAD	ARMY	180	\$253	\$0	\$30,312	779	\$3,992	\$0	\$75,159
	OTHER Sub Total	119 299	\$2,822 \$3,075	\$0 \$0	\$21,794 \$52,107	715 1494	\$12,605 \$16,597	\$0 \$0	\$90,590 \$165,749
RET/DofR/SV	ARMY	341	\$5,625	\$7,505	\$29,515	440	\$15,236	\$12,367	\$38,953
	OTHER	263	\$11,548	\$5,509	\$33,494	824	\$28,651	\$21,684	\$74,618
Total Army	Sub Total	604 521	\$17,173 \$5,878	\$13,013 \$7,605	\$63,009 \$69,828	1264 1219	\$43,887 \$19,228	\$34,051 \$12,367	\$113,571 \$114,112
Total Other		382	\$14,370	\$5,509	\$66,288	1539	\$41,266	\$21,684	\$165,208
GRAND TOTAL	-	903	\$20,247	\$13,013	\$115,116	2768	\$60,483	\$34,051	\$279,321
				160				ALL ZIPS	
DofAD	ARMY	127	\$4,757	\$0	\$19,648	5977	\$40,592	\$11,022	\$791,271
	OTHER Sub Total	269 396	\$2,868 \$7,625	\$1,989 \$1,989	\$44,476 \$64,124	5929 11806	\$59,043 \$99,635	\$11,415 \$22,437	\$903,619 \$1,694,890
RET/DofR/SV	Sub Total ARMY	136	\$6,942	\$1,501	\$12,315	5506	\$199,335	\$147,773	\$611,629
	OTHER	666	\$46,070	\$12,626	\$78,312	9588	\$348,021	\$223,759	\$888,708
Total Arms	Sub Total	802 263	\$53,012 \$11,699	\$14,127 \$1,501	\$90,627 \$31,963	15094 11483	\$547,356 \$239,927	\$371,531 \$158,794	\$1,500,336 \$1,402,899
Total Army Total Other		935	\$48,938	\$1,501	\$122,789	15417	\$407,064	\$235,174	\$1,792,327
GRAND TOTAL	Ε	1198	\$60,637	\$16,116	\$164,761	26900	\$646,991	\$393,969	\$3,195,226

Figure Caption

Figure 1. Map indicating zip code areas included in the analysis.

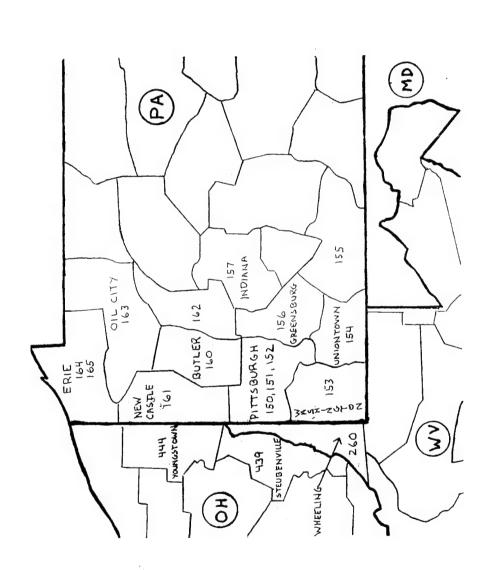


Table 9

<u>Location and Access Routes for Zip Codes Included in the Analysis</u>

ZIP CODE AREA	ORIENTATION TO DOWNTOWN PITTSBURGH	PRINCIPAL ACCE	SS ARTERIES ROUTES
15Ø, 151 152, 26Ø 439	Surrounding, West, & North West	79, 279 376	8, 22, 28, 51, 60, 65
153	South & South West	70, 79	19, 40
156	East, North East, & South East	76	22, 28, 3Ø, 56, 38Ø
16Ø	North	79	8, 19, 28

Table 10

Military Units by Zip Codes

```
15Ø
-99th Army Readiness Command
-U.S. Army Readiness Group Pittsburgh
-Charles E. Kelly Support Facility
-99th U.S. Army Reserve Command
151
-Navy Reserve Center
-Army ROTC -- Penn State University-McKeesport
152
-911th Tactical Air Group
-Army ROTC
     -University of Pittsburgh
     -Carnegie-Mellon University
     -Duquesne University
-Pittsburgh District, U.S. Army Corps of Engineers
-Headquarters, U.S. Army Recruiting Battalion
Pittsburgh
-U.S. Marine Corps Recruiting Station
-U.S. Navy Recruiting District
-3511th U.S. Air Force Recruiting Squadron
-Military Entrance Processing Station
-171st Air Refueling Wing
-112th Tactical Fighter Group
-Defense Contract Administration Services Management
Area
-U.S. Coast Guard
-Naval and Marine Corps Reserve Center
-Joint Program Office, Software Engineering Institute
-Inspector General, 2nd Military Police Company
153
-Army ROTC -- Washington-Jefferson College
-Army ROTC -- Indiana University of Pennsylvania
```

Table 11

		CHAMPUS	CHAMPUS	CHAMPUS	DIR/Non-	GRAND	
	OA		RET/DofR/SV	Sub-Total	CHAMPUS	TOTAL	
Army	1,169	2,625	4,038	6,663	1,810	9,642	
Other	930	2,700	6,710	9,410	1,840	12,180	
TOTAL	2,099	5,325	10,748	16,073	3,650	21,822	
OPEN AL	LOTMENT						
OPEN AL		DI MOIOLANI	1 AD 0 DAD	A ACT NOT A I	LICEDITAL	OTHER	TOT DAIL
OPEN AL	PHARMACY		LAB & RAD CLAIMS	MENTAL HEALTH	HOSPITAL CLAIMS	OTHER CLAIMS	TOT PAID
	PHARMACY CLAIMS	PHYSICIAN CLAIMS \$193,284	LAB & RAD CLAIMS \$26,224				
OPEN ALI Army Other	PHARMACY	CLAIMS	CLAIMS	HEALTH	CLAIMS	CLAIMS	CLAIMS

	NO. OF	PATIENT	3RD PARTY	GOVERNMENT
DofAD	VISITS	COST	PAYMENTS	COST
Army	8,830	\$286,124	\$11,019	\$732,408
Other	9,074	\$289,329	\$14,152	\$748,848
SUBTOTAL	17,904	\$575,453	\$25,171	\$1,481,255
RET/DofR/SV				
Army	7,691	\$392,415	\$182,536	\$808,045
Other	11,718	\$573,754	\$374,461	\$1,427,231
SUBTOTAL	19,409	\$966,169	\$556,997	\$2,235,276
Total Army	16,521	\$678,538	\$193,555	\$1,540,452
Total Other	20,792	\$863,083	\$388,613	\$2,176,079
GRAND TOTAL	37,313	\$1,541,622	\$582,168	\$3,716,531

CHAMPUS HOSPITAL ADMISSIONS, BED DAYS, AND COSTS

	ADMIS-	BED	PATIENT	3RD PARTY	GOVERNMENT
DofAD	SIONS	DAYS	COST	PAYMENTS	COST
Army	512	2,483	\$37,697	\$13,303	\$1,483,590
Other	391	1,944	\$25,627	\$11,934	\$1,265,757
SUBTOTAL	903	4,427	\$63,324	\$25,237	\$2,749,347
RET/DofR/SV					
Army	311	2,196	\$495,172	\$140,249	\$882,921
Other	435	3,584	\$904,936	\$579,512	\$1,162,127
SUBTOTAL	746	5,780	\$1,400,107	\$719,760	\$2,045,048
Total Army	823	4,679	\$532,869	\$153,552	\$2,366,511
Total Other	826	5,528	\$930,562	\$591,445	\$2,427,884
GRAND TOTAL	1,649	10,207	\$1,463,431	\$744,997	\$4,794,395

Table 11 Continued

CHAMPUS INPATIENT PROFESSIONAL SERVICES AND COSTS

DofAD Army Other SUBTOTAL RET/DofR/SV	NO. OF SVCS 3,611 3,635 7,246	PATIENT COST \$26,705 \$34,018 \$60,723		GOVERNMENT COST \$490,260 \$581,389 \$1,071,648
Army	3,007	\$111,785	\$68,930	\$356,652
Other	6,080	\$214,646	\$134,864	\$558,639
SUBTOTAL	9,087	\$326,431	\$203,794	\$915,291
Total Army	6,618	\$138,490	\$78,811	\$846,912
Total Other	9,715	\$248,664	\$143,740	\$1,140,027
GRAND TOTAL	16,333	\$387,155	\$222,551	\$1,986,940

Table 12

Criteria

Governmental Criteria

- 1) Cost
- 2) Control and Flexibility
- 3) Unit Command and Control

Customer Satisfaction Criteria

- 1) Cost to Patient
- 2) Geographic Convenience & Availability of Care
- 3) Adjustment Required and Complexity
- 4) Freedom to Choose

Table 13

Annual Reimbursement Rates by Gender and Age for the Baltimore, Maryland U.S. Family Health Plan

<2 \$3,254 \$3,254 2 - 14 \$ 942 \$ 942 15 - 24 \$1,027 \$2,141 25 - 34 \$1,113 \$1,969 35 - 44 \$1,370 \$2,141 45 - 54 \$1,712 \$2,141 55 - 64 \$2,654 \$2,654 65 - 69 \$5,728 \$4,953 70 - 74 \$6,935 \$5,944 75 - 79 \$8,264 \$6,605 80 - 84 \$8,818 \$7,603	AGE GROUP	MALE	FEMALE
85+ 89 263 88 049	2 - 14 15 - 24 25 - 34 35 - 44 45 - 54 55 - 64 65 - 69 7Ø - 74 75 - 79	\$ 942 \$1,027 \$1,113 \$1,370 \$1,712 \$2,654 \$5,728 \$6,935 \$8,264	\$ 942 \$2,141 \$1,969 \$2,141 \$2,654 \$4,953 \$5,944 \$6,605

Table 14

Government Cost Calculations -- Contract Option - Open Allotment Population

Total Population:

2099

	Population	Cost per Beneficiary	TOTAL
Age Group:	· • • • • • • • • • • • • • • • • • • •		
15-24 (33.33%)	700		
Male (70%)	490		
Enrolled (100%)	490	\$1,027	\$502,990
Female (30%)	210	,	. ,
Enrolled (100%)	210	\$2,141	\$449,396
25-34 (33.33%)	700		
Male (70%)	490		
Enrolled (100%)	490	\$1,113	\$545,110
Female (30%)	210	• •	
Enrolled (100%)	210	\$1,969	\$413,293
35-44 (33.33%)	700		
Male (70%)	490		
Enrolled (100%)	490	\$1,370	\$670,980
Female (30%)	210	. ,	•
Enrolled (100%)	210	\$2,141	\$449,396
GRAND TOTAL			\$3,031,166

Table 15

Government Cost Calculations -- Contract Option -- Dependents of Active Duty Population

Total Population: Number of Dependent Children (66.66%) Number of Spouses (33.33%)	ent Children (33.33%)	(%99.99)	5325 3550 1775				
Children:	Population	Cost per Beneficiary	TOTAL	Spouses	Population	Cost per Beneficiary	TOTAL
Age Group <2 (9.1%) Male (50%) Furolled (50%)	323 162 81		\$262.801	Age Group 15-24 (33.33%) Male (30%) Enrolled (50%)	592 177 89	\$1,027	\$91,146
Female (50%) Enrolled (50%)	162 81		\$262,801	Female (70%) Enrolled (50%)	414		\$319,115
2-14 (59.1%) Male (50%) Enrolled (50%)	2098 1049 525	942	\$494,091	25-34 (33.33%) Male (30%) Enrolled (50%)	592 177 89	\$1,113	\$98,779
Female (50%) Enrolled (50%)	1049 525	942	\$494,091	Female (70%) Enrolled (50%)	414	\$2,141	\$443,365
15-24 (31.8%) Male (50%) Enrolled (50%)	1129 564 282	1027	\$289,845	35-44 (33.33%) Male (30%) Enrolled (50%)	592 177 89	\$1,370	\$121,587
Female (50%) Enrolled (50%)	282 282	1541	\$434,909	Female (70%) Enrolled (50%)	414	\$1,969	\$407,747
Total - Children			\$2,238,538	Total Spouses			\$1,481,740
Total Children and Spouses	Spouses		\$3,720,278				

\$2,651,125 CHAMPUS Costs for 50% of Population not Joining Plan Inpatient Professional \$535,824

Out Patient Professional \$740,628

Hospital \$1,374,674

Total – CHAMPUS Costs Remaining \$2,651,1 GRAND TOTAL

\$6,371,403

Table 16

Government Cost Calculations - Contract Option - Retirees, Dependents of Retirees, and Survivors Population

Total Population: CHAMPUS Eligibles	14398 10748		Non-CHAMPUS Eligibles	es.		
Non-CHAMPUS Eligibles	3650			Population	Cost per Reneficiary	TOTAL
CHAMPUS Eligibles			Age Group		(managed)
	Cost per		65-69 (33.33%)	1217		
Population	Beneficiary	TOTAL	Male (50%)	809		
Age Group			Enrolled (50%)	304	\$5,728	\$1,742,267
45-54 (50%) 5374	**		Female (50%)	809		
Male (50%) 2687	2		Enrolled (50%)	304	\$4,953	\$1,506,538
Enrolled (50%) 1344	4 \$1,712	\$2,300,072				
			70-74 (33.33%)	1217		
Enrolled (50%) 1344	4 \$2,141	\$2,876,434	Male (50%)	809		
			Enrolled (50%)	304	\$6,935	\$2,109,396
55-64 (50%) 5374	*		Female (50%)	809		
Male (50%) 2687	2		Enrolled (50%)	304	\$5,944	\$1,807,967
Enrolled (50%) 1344	4 \$2,654	\$3,565,649				
	2		75-79 (33.33%)	1217		
Enrolled (50%) 1344	4 \$2,654	\$3,565,649	Male (50%)	909		
			Enrolled (50%)	304	\$8,264	\$2,513,633
Total Contract Cost		\$12,307,804	Female (50%)	809		
			Enrolled (50%)	304	\$6,605	\$2,009,021
CHAMPUS Costs for 50% of Population not Joining	oulation not Join	ing Plan				
Inpatient Professional	\$457,646		80-84 (8%)	292		
Out Patient Professional	\$1,117,638		Male (50%)	146		
Hospital	\$1,022,524		Enrolled (50%)	73	\$8,818	\$643,714
Total - CHAMPUS Costs Remaining	ping	\$2,597,808	Female (50%)	146		
			Enrolled (50%)	73	\$7,603	\$555,019
Total Contract and CHAMPUS Cost	ost	\$14,905,611	85+ (2%)	73		
for CHAMPUS Eligibles			Male (50%)	37	000	,
CLAMO CHANGE TO THE NO.	STABLES	£12 202 408	Enrolled (50%)	18	\$9,263	\$169,050
Eligibles		001,001,0	Enrolled (50%)	18	\$8,049	\$146,894
GRAND TOTAL		\$28,109,109	Total Contract Cost			\$13,203,498

Table 17

Government Cost for Contract Option

\$3,031,166	Total Cost for Open Allotment Beneficiaries
\$6,371,403	Total Cost for Dependents of Active Duty
\$28,109,109	Total Cost for Retirees, Dependents of Retirees, and Survivors
\$37,511,678	TOTAL COST ALL CATEGORIES

Total 3rd Party Payments

\$222,551	CHAMPUS Inpatient Professional Fees Paid by 3rd Parties
\$582,168	CHAMPUS Out Patient Fees Paid by 3rd Parties
\$744,997	CHAMPUS Hospital Charges Paid by 3rd Parties
4 5/0 7/6	TOTAL CHAMPUS COSTS PAID BY 3rd PARTIES

(\$774,858) 3rd PARTY PAYMENTS FOR 50% OF ENROLLED POPULATION

\$36,736,820 GOVERNMENT COST FOR CONTRACT OPTION

Table 18

Government Cost Calculations -- Clinic Option -- Open Allotment Population

	R	ecapture	
	Costs	Percent	Recapture
Pharmacy	\$74,764	100	\$74,764
Physician	\$347,052	70	\$242,936
Lab & Rad	\$47,086	80	\$37,669
Mental	\$74,450	0	\$0
Hospital	\$851,872	0	\$0
Other	\$884,707	25	\$221,177
	Total Recaptur	e	\$576,546
	Total Remainin	g	\$1,703,385

Table 19

Government Cost for Clinic Option

\$1,174,500	Cost of Clinic
\$9,568,733	Cost of CHAMPUS Remaining
\$1,703,385	Cost of Open Allotment Remaining
\$100,718	Cost for Direct Care Remaining
\$123,480	Cost of TDY Remaining
\$12,670,816	Total Cost for Health Care

Table 20

Government Cost for VA Option

Inpatient

	Interagency Rates		
Male		Female	
\$728.00	Medical Care	\$728.00	Medical Care
\$958.00	Sugical Care	\$958.00	Sugical Care
\$826.00	Orthopedic Care	\$826.00	Orthopedic Care
	Family Practice Care	\$671.00	Family Practice Care
	Same Day Surgery	\$448.00	Same Day Surgery
		\$931.00	OB/GYN
\$726.20	Average Cost	\$760.33	Average Cost

Required Bed Days

2099 Population

0.1338 Admissions per Beneficiary

3 Average Length of Stay per Admission

843 Total Bed Days Required

Inpatient Cost

590 Male Bed Days Required (@ 70%) \$726.20 Male Average Cost per Bed Day \$428,403 Cost for Male Bed Days 253 Female Bed Days Required (@ 30%) \$760.33 Female Average Cost per Bed Day \$192,231 Cost for Female Bed Days \$620,634 Total Inpatient

Out Patient

5.14 Visits per Beneficiary per Year 2099 OA Population 10789 Total Visits Required \$94.00 Cost per Visit \$1,014,153 Total Out Patient

Total Costs

\$620,634	Inpatient
\$1,014,153	Out Patient
\$1,634,787	Total Inpatient and Out Patient
\$245,218	15% Incentive and Administrative Overhead "Bonus"
\$10,497,866	CHAMPUS Costs
\$12 377 871	GRAND TOTAL

Table 21

Development of Option Weights by Beneficiary Category

	OA		DofAl)	RET/DofF	RISV
	Out Patient		Out Patient		Out Patient	
	Visits	Admissions	Visits	Admissions	Visits	Admissions
Number	10789	281	17904	903	19409	745
% of Total	97.46%	2.54%	95.20%	4.80%	96.30%	3.70%
Percent of Ca			it Paitent Visits and	d Admissions:		
CONTRACT	100.00%	100.00%	50.00%	50.00%	50.00%	50.00%
CLINIC	75.00%	0.00%	25.00%	0.00%	0.00%	0.00%
VA	100.00%	100.00%	0.00%	0.00%	0.00%	0.00%
CURRENT	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Product of De	mand and Ca	re Available by	Option for Out Pat	ient Visits and	Admissions:	
CONTRACT	0.97	0.03	0.49	0.01	0.49	0.01
CLINIC	0.73	0.00	0.24	0.00	0.00	0.00
VA	0.97	0.03	0.00	0.00	0.00	0.00
CURRENT	0.97	0.03	0.97	0.03	0.97	0.03
Sum of Produ	cts for Out Pat	tient Care and	Admissions:			
CONTRACT	1.00		0.50		0.50	
CLINIC	0.73		0.24		0.00	
VA	1.00		0.00		0.00	
CURRENT	1.00		1.00		1.00	
CORRENT	1.00		1.00		1.00	
Factors to be	Applied to Ra	ınkinas:				
CONTRACT						
Option Facto	or					
Op. 10111	1		0.5		0.5	
Current Syste	em Factor					
oun one oyou	0		0.5		0.5	
CLINIC	Ū		0.0			
Option Facto	nt .					
ophon act	0.73		0.24		0	
Current Syste			0.2-1			
Our ent Oyst	0.27		0.76		1	
VA	VIZI		0,10		,	
Option Facto	\P					
Option Facto	"		0		0	
Comment Cont	-		v		v	
Current System			1		1	
CUDDENT	0		ŀ		1	
CURRENT						
Option Facto			4		4	
	1		1		1	
Current Syst			^		^	
	0		0		0	

Table 22

Control and Flexibility Decision Matrix												
	S S	C	_	Č	CLINIC			X S	1940	3	CURRENT	
Weights:	1.00 0.50		0.50	0.73	73 0.24	0.00	1 8 8 9 9 9 9 9 9 9 9	00 0.00 00.00	0.00	85	.00 1.00	1.00
Sub-Criteria - Monitor and Influence Quality and Customer Satisfaction	r Satisfac	tion	•	(•		(((•	•	j
-Rank for Option	က	က	က	_	_	- -	7	7	7	4	4	4
 Score for Population Covered by Plan 	က	1.5	5.	0.73	0.24	0	7	0	0	4	4	4
-Score for Pop. not Covered by Plan (@rank of 4)	0	7	7	1.08	3.04	4	0	4	4	0	0	0
-Total Score by Beneficiary Category	က	3.5	3.5	1.81	3.28	4	7	4	4	4	4	4
-Rank Order by Beneficiary Category	က	2	-		~	က	2	3.5	က	4	3.5	က
-Total Score all Categories	•	10.00			60.6			10.00			12.00	
-Rank Order all Categories		2.5			-			2.5			4	
Sub-Criteria Adjust Services												
-Rank for Option	က	ť	က	-	-	_	7	7	7	4	4	4
 Score for Population Covered by Plan 	3	1.5	1.5	0.73	0.24	0	2	0	0	4	4	4
-Score for Pop. not Covered by Plan (@ rank of 4)	0	7	7	1.08	3.04	4	0	4	4	0	0	0
-Total Score by Beneficiary Category	က	3.5	3.5	1.81	3.28	4	7	4	4	4	4	4
 Rank Order by Beneficiary Category 		2	-	-		က	2	3.5	က	4	3.5	က
-Total Score all Categories	•	10.00			60.6			10.00			12.00	
-Rank Order all Categories		2.5						2.5			4	
Sub-Criteria Future Cost Control												
-Rank for Option	2.5	2.5	2.5	4		-	2.5	2.5	2.5	4	4	4
 Score for Population Covered by Plan 	2.5	1.25	1.25	0.73	0.24	0	2.5	0	0	4	4	4
-Score for Pop. not Covered by Plan (@ rank of 4)	0	7	7	1.08	3.04	4	0	4	4	0	0	0
 Total Score by Beneficiary Category 	2.5	3.25	3.25	.8	3.28	4	2.5	4	4	4	4	4
 Rank Order by Beneficiary Category 	2.5	-	_	-	7	ო	2.5	3.5	က	4	35	က
-Total Score all Categories -Rank Order all Categories		9.00			9.09			10.50			12.00	
Sum of Scores by Beneficiary Category	8.50	5.00	3.00	3.00	4.00	9.00	6.50	10.50	9.00	12.00	10.50	9.00
Option Danking for DofAD Document	3	c		-	-		7	4		t	4	
Option Ranking for RET/DofR/SV Population		4	-		-	က		5	ო			က
Total Sum of Scores for All Beneficiary Categories		9			4			œ			12	
OPTION RANKING (Combined Populations)		8			_			က			4	

Table 23
Unit Command and Control Decision Matrix

	-			
Weight:	CONTRACT 1	CLINIC 0.73	VA	CURRENT 1
Sub-Criteria Accountability				
Measure Number of Sites	3	1.5	1.5	4
Measure Number of Providers	3	1	2	4
Measure Mixing of Populations	3	1.5	1.5	4
Sum of Scores for all Measures	9	4	_ 5	12
-Score for Population Covered by Plan	9.00	2.92	5.00	12.00
-Score for Population not Covered by Plan (@ rank of 4)	0.00	1.08	0.00	0.00
-Total Score	9.00	4.00	5.00	12.00
-Ranking for Sub-Criteria	3	1	2	4
Sub-Criteria Dedicated Care				
-Un-Weighted Ranking for Sub-Criteria	3	1	2	4
-Score for Population Covered by Plan	3.00	0.73	2.00	4.00
-Score for Population not Covered by Plan (@ rank of 4)	0.00	1.08	0.00	0.00
-Total Score	3.00	1.81	2.00	4.00
-Ranking for Sub-Criteria	3	1	2	4
Sub-Criteria Military Medical Requirements				
-Un-Weighted Ranking for Sub-Criteria	2.5	1	2.5	4
-Score for Population Covered by Plan	2.50	0.73	2.50	4.00
-Score for Population not Covered by Plan	0.00	1.08	0.00	0.00
-Total Score	2.50	1.81	2.50	4.00
-Ranking for Sub-Criteria	2.5	1	2.5	4
Sum of Rankings for all Sub-Criteria	8.5	3	6.5	12
OPTION RANKING	3	1	2	4

Cost to Patient Decision Matrix

	CONT	RACT	CLIN	2	N.		CURR	ENT
Weights:	DofAD Other 0.50 0.50	Other 0.50	DofAD Other 0.24 0.00	Other 0.00	DofAD 0	Other 0.00	DofAD Other 1.00 1.00	Other 1.00
-Rank for Option	2.00	2.00	1.00	1.00	3.50	3.50	3.50	3.50
-Score for Population Covered by Plan	1.00	1.00	0.24	0.00	3.50	0.00	3.50	3.50
-Score for Pop. not Covered by Plan (@ rank of 3.5)	1.75	1.75	2.66	3.50	0.00	3.50	0.00	0.00
Sum of Scores by Beneficiary Category	2.75	2.75	2.90	3.50	3.50	3.50	3.50	3.50
Option Ranking for RET/DofR/SV Population	2	1.0	7.0	3.0		3.0	9	3.0
Total Sum of Scores for All Beneficiary Categories OPTION RANKING (Combined Populations)	5.50 1.00		6.40 2.00		7.00		7.00 3.50	

CLINIC OA DOÍAD 0.73 0.24 3.5 3.5 2.555 0.84 0.27 0.76 2.825 1.6 3 4	O A	CLINIC DofAD Other 0.24 0.00 3.5 3.5 0.84 0 0.76 1 1.6 1 4 2	CLINIC DofAD Other 0.24 0.00 1 3.5 3.5 0.84 0 0.76 1 1.6 1 4 2	CLINIC VA DofAD Other OA DofAD O CO.24 0.00 1.00 0.00 0.00 0.00 0.00 0.00 0.76 1 3.5 1 1 4 1.5 2 4.550
		Other 0.00 3.5 0 1 1 1 2	VA Other OA DofAD O 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	WA Other OA DofAD Other 0.00 1.00 0.00 0.00 0.00 0.00 0.00 1.1 1 1 1

Simplicity Decision Matrix												
	8 0 0	CONTRACT OA DofAD (_ Other	OAI	CLINIC OA DofAD	Other	OA	VA OA DofAD	Other	3	CURRENT OA DofAD	Other
Weights:	1.00 0.50	0.50	0.50	0.73	0.24	0.00	1.00	0.00	0.00	1.00	1.00 1.00	1.00
-Rank for Option	2	2	2	2	2	2	2	2	2	4	4	4
-Score for Population Covered by Plan	7	_		1.46	0.48	0	7	0	0	4	4	4
-Score for Pop. not Covered by Plan (@ rank of 4)	0	2	7	1.08	3.04	4	0	4	4	0	0	0
Sum of Scores by Beneficiary Category Ontion Ranking for OA Population	15.2	ဗ	3	2.54	3.52	4	2 ti	4	4	4 4	4	4
Option Ranking for DofAD Population Option Ranking for RET/DofR/SV Population		-			2	ಣ		3.5	က		3.5	က
Total Sum of Scores for All Beneficiary Categories		8.00			10.06			10.00			12.00	
OPTION RANKING (Combined Populations)		·			က			2			4	

Table 27

Freedom of Choice Decision Matrix			1					,		•		
	8 8	CONTRACT	Officer	CLINIC OA DofAD	CLINIC	Other	O	OA DofAD	Other		CURRENI A DofAD	Other
WEIGHTS:	1.00	00 0.50	0.50	0.73	0.24	0.00	1.00	0.00	0.00	1.00	1.00 1.00	1.00
Sub-Criteria – Freedom of Provider												
-Rank for Option	2.5	2.5	2.5	4	4	4	2.5	2.5	2.5	-		-
-Score for Population Covered by Plan	2.5	1.25	1.25	2.92	96.0	0	2.5	0	0	₩		-
-Score for Pop. not Covered by Plan (@ rank of 1)	0	0.5	0.5	0.27	0.76		0	_	-	0	0	0
- Total Score by Beneficiary Category	2.5	1.75	1.75	3.19	1.72		2.5			-	-	
-Rank Order by Beneficiary Category	2.5	n	4	4	က	7	2.5	1.5	7	_	1.5	7
-Total Score all Categories		6.00			5.91			4.50			3.00	
-Rank Order all Categories		4			3			2				
Sub-Criteria Freedom of Location of Care												
-Rank for Option	2	2	7	3.5	3.5	3.5	3.5	3.5	3.5		_	
-Score for Population Covered by Plan	2	-	-	2.555	0.84	0	3.5	0	0		~	-
-Score for Pop. not Covered by Plan (@ rank of 1)	0	0.5	0.5	0.27	97.0		0	-	-	0	0	0
-Total Score by Beneficiary Category	2	1.5	1.5	2.825	1.6		3.5	-	-	-		7
-Rank Order by Beneficiary Category	2	2	4	S	က	7	4	1.5	2	<u></u>	15	7
-Total Score all Categories		5.00			5.43			5.50			3.00	
-Rank Order all Categories		2			က			4			-	
Sum of Scores by Beneficiary Category	4.50	5.00	8.00	7.00	6.00	4.00	6.50	3.00	4.00	2.00	3.00	4.00
Option Ranking for OA Population	7			4			က			-		
Option Ranking for DofAD Population Option Ranking for RET/DofR/SV Population		က	4		4	2		1.5	2		1.5	2
Total Sum of Scores for All Beneficiary Categories OPTION RANKING (Combined Populations)		ဖက			ယက			တက			1	

Master Decision Matrix - Combined Beneficiary Categories - Un-Weighted

			1	
	CONTRACT	CLINIC	××	CURRENT
Government Criteria: Cost	4.00	2.00	1.00	3.00
Control and Flexibilility	2.00	1.00	3.00	4.00
Unit Command and Control	3.00	1.00	2.00	4.00
Sum of Government Criteria	9.00	4.00	6.00	11.00
-Rank Order	3.00	1.00	2.00	4.00
Customer Satisfaction Criteria:				
Patient Cost	1.00	2.00	3.50	3.50
Geographic Convenience	2.00	3.00	4.00	1.00
Simplicty	1.00	3.00	2.00	4.00
Freedom of Choice	3.00	4.00	1.50	1.50
-Sum of Customer Satisfaction Criteria	7.00	12.00	11.00	10.00
-Rank Order	1.00	4.00	3.00	2.00
Sum of Criteria Ranks	16.00	16.00	17.00	21.00
Rank Order	1.00	2.00	3.00	4.00

Table 29

Pair-Wise Judgements for Criterion Weighting

	Government Cost	Control & Flexibility	Unit Command & Control	Pateint Cost	Geographic Convenience	Simplicity
Control & Flexibility	က					
Unit Command	4	က				
Patient Cost	က	2	-2			
Geographic Convenience	4	4	2	ဗ		
Simplicity	4	4	2	က	_	
Feedom of Choice	4	4	2	က	_	-
Legend:	1=Equally Importa A positive number A negative numbe	int; 2=Slightly Faindicates that the indicates that the	=Equally Important; 2=Slightly Favored; 3=Favored; 4=Strongly Favored A positive number indicates that the criterion above the number was favored. A negative number indicates that the criterion to the left of the number was favored.	4=Strongly Fave number was it	rored favored. Frwas favored.	

Freedom of	Choice	1.00
	Simplicity	1.00
Geographic	Convenience	1.00
Patient	Cost	2.63
Unit Command	& Control	1.64
Control &	Flexibility	3.84
- Government	Cost	5.80
WEIGHTS		

Table 30

Master Decision Matrix - Combined Beneficiary Categories - Weighted

	Weight	CON	CONTRACT Raw Weighted	CLII	CLINIC Raw Weighted	Kaw //	VA Raw Weighted	CURI Raw	CURRENT Raw Weighted
Government Criteria: Cost	5.80	4.00	23.20	2.00	11.60	1.00	5.80	3.00	17.40
Control and Flexibility	3.84	2.00	7.68	1.00	3.84	3.00	11.52	4.00	15.36
Unit Command and Control	1.64	3.00	4.92	1.00	1.64	2.00	3.28	4.00	6.56
-Sum of Governmental Criteria			35.80		17.08		20.60		39.32
-Rank Order			3.00		1.00		2.00		4.00
Customer Satisfaction Criteria:									
Patient Cost	2.63	1.00	2.63	2.00	5.26	3.50	9.21	3.50	9.21
Geographic Convenience	1.00	2.00	2.00	3.00	3.00	4.00	4.00	1.00	1.00
Simplicity	1.00	1.00	1.00	3.00	3.00	2.00	2.00	4.00	4.00
Freedom of Choice	1.00	3.00	3.00	3.00	3.00	3.00	3.00	1.00	1.00
 Sum of Customer Satisfaction Criteria 			8.63		14.26		18.21		15.21
-Rank Order			1.00		2.00		4.00		3.00
Sum of Criteria Ranks			44.43		31.34		38.805		54.53
Rank Order			3				2		4.00

Consistency Ratio for Weights is 92.29%

Criteria 1 is not sensitive.

Criteria 2 changes the optimal option to VA at a weight of .84. Criteria 3 is not sensitive.
Criteria 4 is not sensitive
Criteria 5 is not sensitive.

Criteria 6 is not sensitive. Criteria 7 is not sensitive.

Table 31
Scoring Methodology for Government Cost Criterion

		Change from	Precent	
Option	Cost	Current	Change	Score
VA	\$12,377,871	\$673,973	5.16%	-1
Clinic	\$12,670,816	\$381,028	1.04%	-1
Contract	\$36,736,820	(\$23,684,976)	-64.47%	+6
Current	\$13,051,844	\$0	0.00%	0

Table 32

Master Decision Matrix - Combined Beneficiary Categories - Weighted - Using Score Versus Ranking for the Government Cost Criterion

	Weight	CON	CONTRACT Raw Weighted	CLI	CLINIC Raw Weighted	V/ Raw	VA Raw Weighted	CURR Raw	CURRENT Raw Weighted
Government Criteria:	7 80	00	34.80	100	.5 80	1 00	7 80	000	000
Control and Flexibility	3.84	2000	7.68	9.1	3.84	300		A 00.	15.36
Unit Command and Control	2. 2.	3.00	4.92	1.00	1.64	2.00	3.28	4.00	6.56
-Sum of Governmental Criteria			47.40		-0.32				21.92
-Rank Order			3.00		1.00		2.00		4.00
Customer Satisfaction Criteria:									
Patient Cost	2.63	1.00	2.63	2.00		3.50		3.50	9.21
Geographic Convenience	1.00	2.00	2.00	3.00		4.00		1.00	1.00
Simplicity	1.00	1.00	1.00	3.00		2.00		4.00	4.00
Freedom of Choice	1.00	3.00	3.00	3.00		3.00		1.00	1.00
-Sum of Customer Satisfaction Criteria			8.63		14.26		18.21		15.21
-Rank Order			-		7		4		ĸ
Sum of Criteria Ranks			56.03		13.94		27.205		37.13
			t		•		4		,

Consistency Ratio for Weights is 92.29% Criteria 1 is not sensitive.
Criteria 2 is not sensitive.
Criteria 3 is not sensitive.
Criteria 4 is not sensitive.
Criteria 5 is not sensitive.
Criteria 6 is not sensitive.
Criteria 7 is not sensitive.

Table 33

Option Ranking Comparison of Un-Weighted and Weighted Criteria and Weighted Criteria with Government Cost Score Versus Rank

With Government Cost Score versus r	\allk			
	CONTRACT	CLINIC	VA	CURRENT
Un-Weighted Criteria/Option Ranks				
Un-Weighted Scores	15.50	16.00	18.00	20.50
Ranking	1	2	3	4
Weighted Criteria/Option Ranks				
Weighted Scores	43.93	32.34	38.31	54.53
Ranking	3	1	2	4
Weighted Criteria/Score for Governmen	nt Cost			
Weighted Scores	55.53	14.94	26.71	37.13
Ranking	4	1	2	3

Table 34

Master Decision Matrix - OA Beneficiary Category - Weighted (Includes the Criteria Unit Command and Control) (Excludes the Criteria Patient Cost)

	Weight	CONT	CONTRACT Raw Weighted	CLIN	CLINIC Raw Weighted	VA Raw	Weighted	CURRI Raw V	CURRENT Raw Weighted
Government Criteria: Cost (All Beneficiary Categories)	5.10		20.40	2.00	10.20	1.00	5.10	3.00	15.30
Control and Flexibility	2.90	3.00	8.70	1.00	2.90	2.00	5.80	4.00	11.60
Unit Command and Control	1.60	3.00	4.80	1.00	1.60	2.00	3.20	4.00	6.40
-Sum of Government Criteria			33.90		14.70		14.10		33.30
-Rank Order			4.00		2.00		1.00		3.00
Customer Satisfaction Criteria:									
Geographic Convenience	1.00	2.00	2.00	3.00	3.00	4.00	4.00	1.00	1.00
Simplicity	1.00	1.50	1.50	3.00	3.00	1.50	1.50	4.00	4.00
Freedom of Choice	1.00	2.00	2.00	4.00	4.00	3.00	3.00	1.00	1.00
-Sum of Customer Satisfaction Criteria			5.50		10.00		8.50		6.00
-Rank Order			1.00		4.00		3.00		2.00
Sum of Criteria Ranks			39.40		24.70		22.60		39.30
Rank Order			4.00		2.00		1.00		3.00

Consistency Ratio for Weights is 93.32%.

Criteria 1 changes the optimal option to the clinic at a weight of 2.14. Criteria 2 changes the optimal option to the clinic at a weight of 5.94. Criteria 3 changes the optimal option to the clinic at a weight of 4.59. Criteria 4 changes the optimal option to the clinic at a weight of 4.00.

Criteria 5 is not sensitive. Criteria 6 is not sensitive.

Table 35

Master Decision Matrix - DofAD Beneficiary Category - Weighted (Excludes the Criteria Unit Command and Control) (Includes the Criteria Patient Cost)

	Weight	CON	CONTRACT	CLIN	CLINIC	*		CURRE	CURRENT
		Raw	Weighted	Raw	Weighted	Raw	Weighted	Raw	Weighted
Government Criteria:									
Cost (All Beneficiary Categories)	4.90	4.00	19.60	2.00	9.80	1.00	4.90	3.00	14.70
Control and Flexibility	2.70	2.00	5.40	1.00	2.70	3.50	9.45	3.50	9.45
-Sum of Government Criteria			25.00		12.50		14.35		24.15
-Rank Order			4.00		1.00		2.00		3.00
Customer Satisfaction Criteria:									
Patient Cost	1.80	1.00	1.80	2.00	3.60	3.50	6.30	3.50	6.30
Geographic Convenience	1.00	3.00	3.00	4.00	4.00	1.50	1.50	1.50	1.50
Simplicity	1.00	1.00	1.00	2.00	2.00	3.50	3.50	3.50	3.50
Freedom of Choice	1.00	3.00	3.00	3.00	4.00	1.50	1.50	1.50	1.50
 Sum of Customer Satisfaction Criteria 			8.80		13.60		12.80		12.80
-Rank Order			1.00		4.00		2.50		2.50
Sum of Criteria Ranks			33.80		26.10		27.15		36.95
Rank Order			3.00		1.00		2.00		4.00

Consistency Ratio for Weights is 96.13%.

Criteria 1 changes the optimal option to VA at a weight of 6.90. Criteria 2 changes the optimal option to VA at a weight of 1.70. Criteria 3 changes the optimal option to VA at a weight of 0.80. Criteria 4 changes the optimal option to VA at a weight of 2.00. Criteria 5 is not sensitive.

Criteria 6 changes the optimal option to VA at a weight of 2.00.

Table 36

Master Decision Matrix – RET/DofR/SV Beneficiary Category – Weighted (Excludes the Criteria Unit Command and Control) (Includes the Criteria Patient Cost)

	Weight	CONT	CONTRACT Raw Weighted	CLINI	CLINIC Raw Weighted	VA Raw	Weighted	CURREI Raw V	CURRENT Raw Weighted
Government Criteria:									ı
Cost (All Beneficiary Categories)	4.90	4.00	19.60	2.00	9.80	1.00	4.90	3.00	14.70
Control and Flexibility	2.70	1.00	2.70	3.00	8.10	3.00	8.10	3.00	8.10
-Sum of Government Criteria			22.30		17.90		13.00		22.80
-Rank Order			3.00		1.00		2.00		4.00
Customer Satisfaction Criteria:									
Patient Cost	1.80	1.00	1.80	3.00	5.40	3.00	5.40	3.00	5.40
Geographic Convenience	1.00	4.00	4.00	2.00	2.00	2.00	2.00	2.00	2.00
Simplicity	1.00	1.00	1.00	3.00	3.00	3.00	3.00	3.00	3.00
Freedom of Choice	1.00	4.00	4.00	2.00	2.00	2.00	2.00	2.00	2.00
 Sum of Customer Satisfaction Criteria 			10.80		12.40		12.40		12.40
-Rank Order			1.00		3.00		3.00		3.00
Sum of Criteria Ranks Rank Order			33.10 3.00		30.30 2.00		25.40 1.00		35.20 4.00

Consistency Ratio for Weights is 96.13%. Criteria 1 changes the optimal option to contract at a weight of 1.90.

Criteria 2 is not sensitive. Criteria 3 is not sensitive. Criteria 4 is not sensitive. Criteria 5 is not sensitive. Criteria 6 is not sensitive.

Table 37

Master Decision Matrix -- Sum of Weighted Individual Beneficiary Category Option Rankings

	Weight	CONT	CONTRACT Raw Weighted	CLIN	CLINIC Raw Weighted	VA Raw	Weighted	CURR Raw	CURRENT Raw Weighted
OA Population	5.2	4.00	20.80	2.00	10.40	1.00	5.20	3.00 15	15.60
DofAD Population	2.3	3.00	6.90	1.00	2.30	2.00	4.60	4.00	9.20
RET/DofR/SV Population	1.00	3.00	3.00	2.00	2.00	1.00	1.00	4.00	4.00
Sum of Rankings Rank Order			30.70		14.70 2.00		10.80		3.00

Consistency Ratio for Weights is 93.18%. Criteria 1 is not sensitive. Criteria 2 is not sensitive. Criteria 3 is not sensitive.

Table 38

Comparison of Rankings for All Weighted Decision Matricies

		CONTRACT	CLINIC	VA	CURRENT	
Combined Beneficiary	Categories Score Ranking	43.93 3	32.34 1	38.31 2	54.53 4	
Individual Beneficiary Categories OA Beneficiary Category						
• • • • • • • • • • • • • • • • • • • •	Score Ranking	39.40 4	24.70 2	22.60 1	39.30 3	
DofAD Beneficiary Cate	gory					
	Score Ranking	33.80 3	26.10 1	27.15 2	36.95 4	
RET/DofR/SV Beneficia	ary Category					
	Score Ranking	33.10 3	30.30 2	25.40 1	35.20 4	
Combined Indvidual Beneficiary Categories						
	Score Ranking	30.70 4	14.70 2	10.80 1	28.80 3	